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NTISUB/C/139-013A

LANDSAT 1

CUMULATIVE NON-U.S. STANDARD CATALOG

1976/1977

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GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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The Landsat 1 Non-U.S. Cumulative Catalog lists Non-U.S. imagery acquired by Landsat 1 which has been processed and input to the data files during the referenced year. Data, such as date acquired, cloud cover and image quality are given for each scene. The microfilm roll and frame on which the scene may be found is also given.

17. Key Words and Document Analysis. 17a. Descriptors

17b. Identifiers/Open-Ended Terms

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17c. COSATI Field/Group

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INTRODUCTION

To provide dissemination of information regarding the availability of Landsat imagery, the Image Processing Facility (IPF), located at the Goddard Space Flight Center, publishes a U. S. and Non-U. S. Standard Catalog on a monthly schedule. These catalogs identify imagery which has been processed and input to the data files during the referenced month. The U. S. Standard Catalog includes imagery covering the continental United States, Alaska and Hawaii; the Non-U. S. Catalog identifies all the remaining coverage. Imagery adjacent to the continental U. S. and Alaska borders will normally appear in the U. S. Standard Catalog. As a supplement to these catalogs, the Landsat imagery of one spectral band is available on 16mm microfilm.

In addition to the routine monthly catalogs, the IPF annually publishes a cumulative U. S. and Non-U. S. Standard Catalog for each satellite, covering a year based on the launch date for that satellite. These catalogs include information on all observations acquired and processed by the facility during that year.

Film products for imagery listed in this catalog are available at a nominal price from all three agencies listed below. In addition, the 16mm microfilm can be purchased from the U. S. Department of the Interior (USDI) EROS Data Center and National Oceanic and Atmospheric Administration (NOAA). Digital tapes can be purchased only from the USDI EROS Data Center.

U. S. Department of Agriculture	Aerial Photography Field Office 2505 Parley's Way Salt Lake City, Utah 84109
U. S. Department of Commerce	Environment Data Service
National Oceanic and Atmospheric Administration	Satellite Data Service Branch D543 World Weather Building Room 606 Washington, D. C. 20233
U. S. Department of the Interior	User Services Unit
Geological Survey	EROS Data Center Sioux Falls, South Dakota 57198

1.1 MONTHLY CATALOGS

The coverage sections contained in the monthly U.S. and Non-U.S. Standard Catalogs are divided into three parts. Part 1 (see Para. 1.1,A) consists of annotated maps which graphically depict the geographic areas covered by imagery listed in the current catalog. Part 2 (see Para. 1.1,B) contains a computer generated listing organized by observation identification number (ID) and includes pertinent information about each image. Part 3 (see Para. 1.1, C) provides a computer listing of observations organized by longitude/latitude.

A. Satellite Coverage Maps. These maps are segregated by cycle and depict the general location of observations listed in the catalog. The format and data content of these maps are slightly different in the U.S. and Non-U.S. catalogs.

1. U.S. Satellite Coverage Maps. Two separate map formats are presented in this catalog. One map outlines the continental U.S. and depicts the estimated cloud cover along each north to south subsatellite path. Each path is identified by actual orbit number and a cross reference, which matches the orbit number to the initial observation ID for that path. The second map provides an enlarged view of Alaska and Hawaii and displays the portion of an orbital pass for which coverage is available. This map does not include cloud cover estimates or orbit numbers.

2. Non-U.S. Satellite Coverage Map. A world outline map is provided with the portions of an orbital swath for which observations are available graphically displayed. This map is intended solely to inform the user as to whether or not coverage is included in the catalog for his area of interest. It is not intended as a rapid reference to specific observations.

B. Observation Identification Number (ID) Listing. The data format for the observation ID listing is identical in the U.S. and Non-U.S. Catalogs. Observation ID numbers are listed in a sequential manner from smallest number to largest. Associated with each ID number in the list is pertinent information about that observation. A sample catalog page with a description of each data item is shown in Figure 1-1.

1. Sample Observation ID Format. See Figure 1-1.

(1) 20 53 APR 04, '75 (2) FROM 02/01/75 TO 02/28/75

(4) OBSERVATION ID	(5) MICROFILM ROLL NO / POSITION IN ROLL RBV	MSS	(6) DATE ACQUIRED	(7) CLOUD COVER %	(8) ORBIT NUMBER	(9) PRINCIPAL POINT OF IMAGE LAT	LONG	(10) SUN ELEV	SUN AZIM	(11) IMAGE QUALITY RBV 123	MSS 45678
1943-16381	00000/0000	1-10034/0565	02/21/75	100	3149	4728N	09815W	25 3	144 8		GGGG
1943-16383	00000/0000	1-10034/0566	02/21/75	100	3149	4603N	09849W	26 3	143 9		GGG
1943-16390	00000/0000	1-10034/0567	02/21/75	100	3149	4438N	09923W	27 2	143 0		FGG
1943-16392	00000/0000	1-10034/0568	02/21/75	70	3149	4313N	09955W	28 2	142 1		GGFF
1943-16395	00000/0000	1-10034/0569	02/21/75	40	3149	4147N	10026W	29 1	141 2		FGGG
1944-16432	00000/0000	1-10034/0606	02/22/75	40	3163	4854N	09903W	24.7	145 5		GGGG
1944-16435	00000/0000	1-10034/0607	02/22/75	90	3163	4730N	09939W	25 6	144 6		FGGG
1944-16441	00000/0000	1-10034/0608	02/22/75	30	3163	4605N	10014W	26 6	143 8		GGGG

(3) KEY

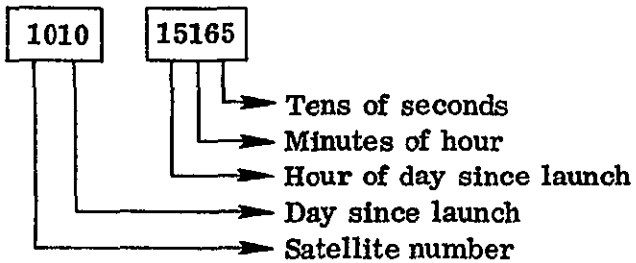
CLOUD COVER
- 0 TO 100 = % OF CLOUD COVER
- ** NO CLOUD DATA AVAILABLE

IMAGE QUALITY
- BLANK = BAND NOT PRESENT/REQUESTED
- G = GOOD P = POOR F = FAIR

Figure 1-1. Observation ID Listing for Standard Catalog

2. Description of Data Items

(1) Date of catalog listing
(2) Period during which imagery was processed
(3) Data quality
(4) Observation ID



(5) RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
(6) Date of observation
(7) Estimated percent of cloud cover
(8) Orbit number
(9) Latitude and longitude at observation center (degrees and minutes)
(10) Sun elevation and azimuth at observation center
(11) Image quality; see key

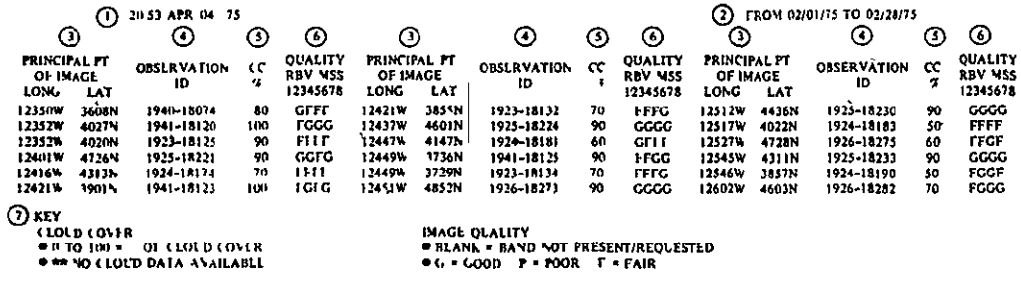
C. Longitude/Latitude Listing. The data format for the longitude/latitude listing is identical in the U.S. and Non-U.S. Catalogs. This listing contains the same observations as the observation ID listing but organizes them by coordinates, using image center location information for each observation. Observations in this listing will be sorted first by longitude and, within longitude, by latitude. The longitude/latitude listing is arranged in the following manner:

180-0 degrees East; 90-0 degrees North and 0-90 degrees South
followed by
0-180 degrees West; 90-0 degrees North and 0-90 degrees South

This listing is intended to be used as a tool for locating specific coverage, and once a specific observation has been identified, pertinent information about it can be found by referring to the ID listing.

Figure 1-2 below shows a sample catalog page with a description of each data item.

1. Sample Longitude/Latitude Format. See Figure 1-2.



① 2053 APR 04 75

② FROM 02/01/75 TO 02/28/75

③ PRINCIPAL PT OF IMAGE LONG	LAT	④ OBSERVATION ID	⑤ CC %	⑥ QUALITY RBV MSS 12345678	③ PRINCIPAL PT OF IMAGE LONG	LAT	④ OBSERVATION ID	⑤ CC %	⑥ QUALITY RBV MSS 12345678	③ PRINCIPAL PT OF IMAGE LONG	LAT	④ OBSERVATION ID	⑤ CC %	⑥ QUALITY RBV MSS 12345678
12350W	3608N	1940-18074	80	GFFF	12421W	3854N	1923-18132	70	FFFG	12512W	4436N	1923-18230	90	GGGG
12352W	4027N	1941-18120	100	FGGG	12437W	4601N	1925-18224	90	GGGG	12517W	4022N	1924-18183	50	FFFF
12355W	4020N	1923-18125	90	FFFF	12447W	4147N	1924-18181	60	GFFF	12527W	4728N	1926-18275	60	FFGF
12401W	4726N	1925-18221	90	GGFG	12449W	1736N	1941-18125	90	FFGG	12545W	4311N	1925-18233	90	GGGG
12416W	4313N	1924-18174	70	FFFF	12449W	3729N	1923-18134	70	FFFG	12546W	3857N	1924-18190	50	FGGF
12421W	3901N	1941-18123	100	FGFG	12451W	4852N	1936-18273	90	GGGG	12602W	4603N	1926-18282	70	FGGG

⑦ KEY

CLOUD COVER
- 0 TO 100 = % OF CLOUD COVER
- *** NO CLOUD DATA AVAILABLE

IMAGE QUALITY
- BLANK = BAND NOT PRESENT/REQUESTED
- G = GOOD P = POOR F = FAIR

Figure 1-2. Coordinate Listing for Standard Catalog

2. Description of Data Items

① Date of catalog listing
② Period during which imagery was processed
③ Longitude and latitude at observation center (degrees and minutes)
④ Observation ID (see Fig. 1-1, Para. 1.1,B,2)
⑤ Estimated percent of cloud cover
⑥ Image quality; see key
⑦ Data quality

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1.2 CUMULATIVE STANDARD CATALOGS

Annually, a cumulative catalog is produced which includes information covering all observations and coordinates acquired and processed by the IPF during that year.

A. Observation ID Listing.

1. Sample Observation ID Format. See Figure 1-1.

2. Description of Data Items. See Paragraph 1.1,B,2.

B. Coordinate ID Listing. The coordinate ID listing format is expanded to identify observations for which color or digital products have been made.

1. Sample Coordinate ID Format. See Figure 1-3.

(1) 15.36 MAR 11, '74 (2) FROM 07/23/72 TO 07/23/74

(9) PRINCIPAL POINT OF IMAGE LONG	LAT	(4) OBSERVATION ID	(5) MICROFILM ROLL NO / POSITION IN ROLL RBV	MSS	(6) DATE ACQUIRED	(7) CLOUD COVER %	(8) ORBIT NUMBER	(10) SUN ELEV	SUN AZIM	(11) IMAGE QUALITY RBV 123	MSS 45678	(12) PRODUCTS B P C	P C	P D	B D	P D
07607W	3734N	1295-15144	00000/0000	10010/1659	05/14/73	20	4112	60 2	122 0		GGGG			M		
07607W	3731N	1259-15150	00000/0000	10010/0088	04/08/73	90	3610	50 7	133 2		GGGG			M		
07607W	3731N	1313-15143	00000/0000	10011/0920	06/01/73	80	4363	62.3	116 2		GGGG			M		
07608W	4438N	1027-15231	00000/0000	1-10001/1498	08/19/72	0	375	50.9	136 9		GGGG	M		M		
07608W	3731N	1331-15142	00000/0000	1-10011/1589	06/19/73	100	4614	62.4	112 8		GGGG					
07608W	3724N	1349-15141	00000/0000	1-10012/1387	07/07/73	10	4865	61.2	112.9		PGPP	M		M		
07609W	4851N	1352-15275	00000/0000	1-10012/1622	07/10/73	60	4907	56 7	133.9		G					
07609W	3144N	1006-15093	1-10001/0377	1-10001/0378	07/29/72	100	82	59.7	108 3	GGG	PPGG					

(3) KEY

CLOUD COVER
- 0 TO 100 = % OF CLOUD COVER

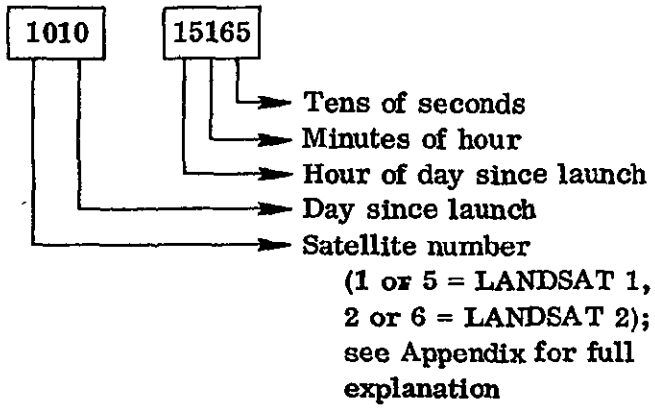
IMAGE QUALITY
- BLANK = BAND NOT PRESENT/REQUESTED
- G = GOOD P = POOR F = FAIR

PRODUCTS ALREADY MADE
- R = MADE FROM RBV M = MADE FROM MSS
  B = MADE FROM RBV AND MSS

Figure 1-3. Coordinate Listing for Cumulative Standard Catalog

2. Description of Data Items

① Date of catalog listing
② Period during which imagery was processed
③ Data quality
④ Observation ID



⑤ RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
⑥ Date of observation
⑦ Estimated percent of cloud cover
⑧ Orbit number
⑨ Latitude and longitude at observation center (degrees and minutes)
⑩ Sun elevation and azimuth at observation center
⑪ Image quality; see key
⑫ Image/data product availability; see key

SECTION 2 — MICROFILM

2.1 GENERAL

The Image Processing Facility produces a 16 mm microfilm inventory of imagery processed during the referenced month and is organized for convenient use with the Standard Catalog.

As in the case of the Standard Catalog, the microfilm data is divided into U.S. and Non-U.S. segments. Each set of microfilm images is in exact correspondence to a Standard Catalog and can be used in conjunction with the catalog for selecting desired images. A maximum of 1900 images will be contained on one roll of 16 mm x 100 ft microfilm. Because the microfilm images are intended to provide only a summary of the data available, the images are limited to one band each for the RBV and MSS. Although a single observation will produce seven images, in the production of microfilm only the RBV Spectral Band 2 images (0.580 - 0.680 microns) and MSS Spectral Band 2 images (0.6 - 0.7 microns) are reproduced. Each image is a photograph of a 70 mm (-2) image and contains the image identifier and annotation block. See Figure 2-1.

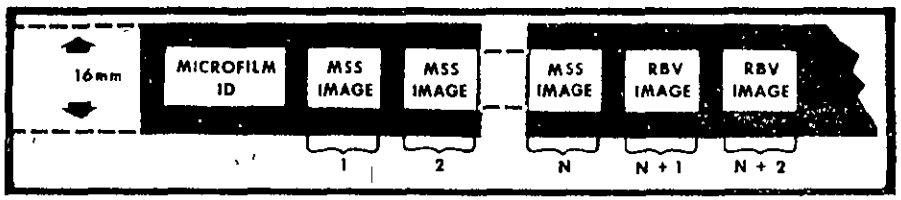


Figure 2-1. Microfilm Format

Microfilm roll numbers contain six digits. The first digit designates the satellite number (blank or 1- = LANDSAT 1, 2- = LANDSAT 2). Example: Roll number 10032 and roll number 1-10034 are both LANDSAT 1 rolls. Roll 2-10032 is a LANDSAT 2 roll. The second digit will be a 1 (for U.S. rolls) or a 2 (for Non-U.S. rolls). The remaining digits are used to number sequentially all microfilm rolls prepared within each group. Example: Roll number 10001 is the first U.S. roll of microfilm produced for LANDSAT 1. Roll number 20004 is the fourth Non-U.S. roll to be produced for LANDSAT 1. The first U.S. roll of microfilm for LANDSAT 2 is number 2-10001.

The microfilm contains two rapid search capabilities to help the user quickly reach the desired scene. They are:

- Code Line Indexing
- Blip Encoding

2.2 CODE LINE INDEXING

The LANDSAT microfilm images have been annotated with visual code lines to the right of each frame. The visual code lines graduate up the edge of the screen as the film advances and allow the user to advance rapidly to within 20 frames of his desired image. See Figure 2-2.

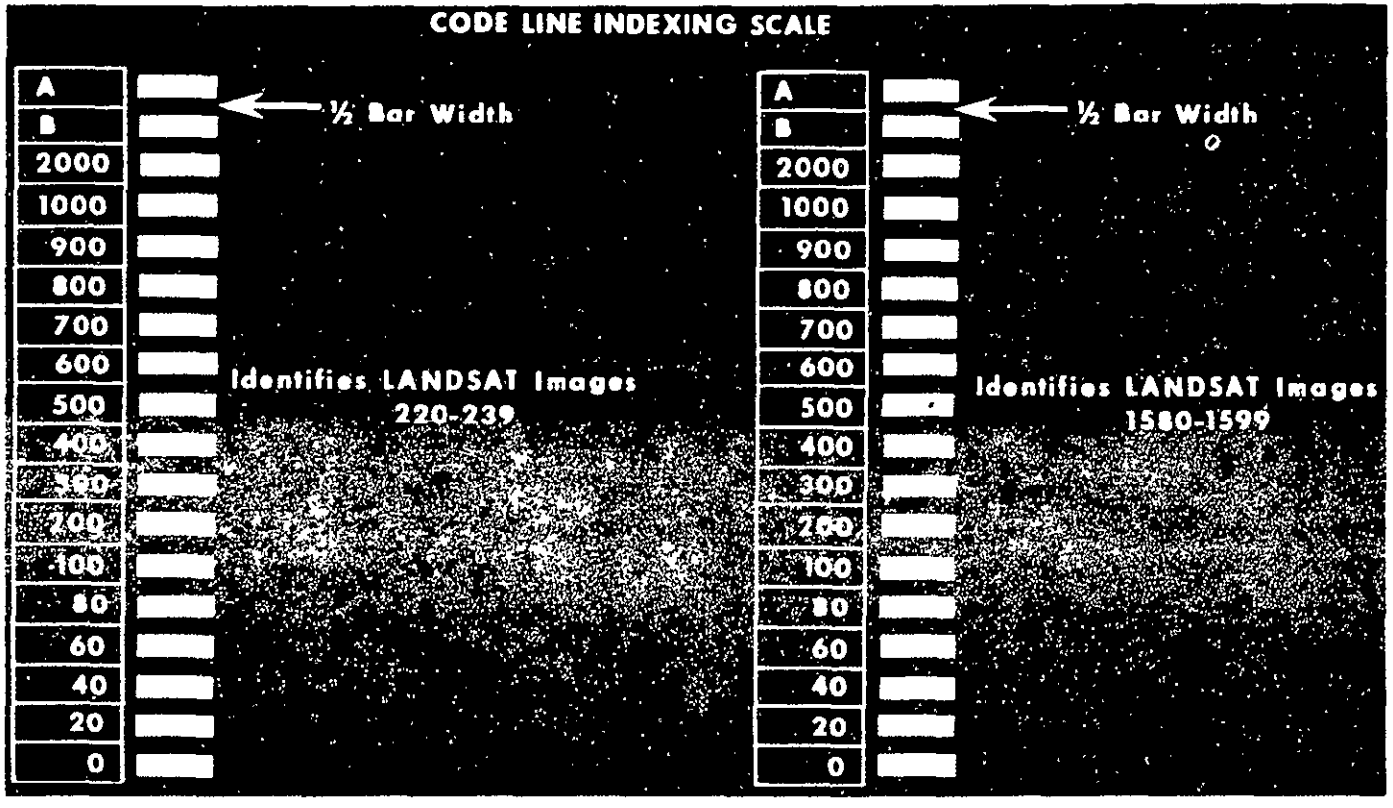


Figure 2-2. Code Line Indexing Scale

To utilize this system, a user must generate a code line indexing bar scale to attach to the face of his viewers. The size and spacing for the bar scale is dependent upon the magnification of his viewer. LANDSAT imagery is microfilmed at a reduction ratio of 8.5x. To determine the overall length of a scale required for your microfilm reader, multiply 7.4mm by the enlargement factor of your lens. To determine the bar widths along the bar scale, Multiply 0.24mm by the same factor. A space between each bar should exist that is 1/2 the bar width.

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2.3 BLIP ENCODING

The LANDSAT microfilm images have also been annotated with a blip (black spot) at the base of each frame. This type of encoding is designed for use on readers with an electronic sensing and counting capability or an odometer. To use the blip encoding retrieval system, the film will have to be placed in a cartridge. When the cartridge is placed in a reader which contains an odometer or has a keyboard attached, the identification of the desired image is obtained from the Standard Catalog (column 6, Microfilm Position) and either punched on the keyboard or read via the odometer as the film advances. Using a reader configured for rapid search and retrieval, the film advances and the frames (blips) are counted by means of a photosensing light. When the appropriate number has been counted, the reader stops and the desired image is projected on the screen. Using a reader with an odometer requires the user to monitor the odometer as the film advances and stop the advance of the film in the vicinity of the required frame.

SECTION 3 — LANDSAT 2 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 22 days	1	22	22 Jan 75	13 Feb 75	19	347	364	4 Jan 76	21 Jan 76
1	23	40	14 Feb 75	3 Mar 75	20	365	382	22 Jan 76	8 Feb 76
2	41	58	4 Mar 75	21 Mar 75	21	383	400	9 Feb 76	26 Feb 76
3	59	76	22 Mar 75	8 Apr 75	22	401	418	27 Feb 76	15 Mar 76
4	77	94	9 Apr 75	26 Apr 75	23	419	436	16 Mar 76	2 Apr 76
5	95	112	27 Apr 75	14 May 75	24	437	454	3 Apr 76	20 Apr 76
6	113	130	15 May 75	1 Jun 75	25	455	472	21 Apr 76	8 May 76
7	131	148	2 Jun 75	19 Jun 75	26	473	490	9 May 76	26 May 76
8	149	188	20 Jun 75	7 Jul 75	27	491	508	27 May 76	13 Jun 76
9	167	184	8 Jul 75	25 Jul 75	28	509	526	14 Jun 76	1 Jul 76
10	185	202	26 Jul 75	12 Aug 75	29	527	544	2 Jul 76	19 Jul 76
11	203	220	13 Aug 75	30 Aug 75	30	545	562	20 Jul 76	6 Aug 76
12	221	238	31 Aug 75	17 Sep 75	31	563	580	7 Aug 76	24 Aug 76
13	239	256	18 Sep 75	5 Oct 75	32	581	598	25 Aug 76	11 Sep 76
14	257	274	6 Oct 75	23 Oct 75	33	599	616	12 Sep 76	29 Sep 76
15	275	292	24 Oct 75	10 Nov 75	34	617	634	30 Sep 76	17 Oct 76
16	293	310	11 Nov 75	28 Nov 75	35	635	652	18 Oct 76	4 Nov 76
17	311	328	29 Nov 75	16 Dec 75	36	653	670	5 Nov 76	22 Nov 76
18	329	346	17 Dec 75	3 Jan 76	37	671	688	23 Nov 76	10 Dec 76

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
32	567	584	10 Feb 74	27 Feb 74	48	855	872	25 Nov 74	12 Dec 74
33	585	602	28 Feb 74	17 Mar 74	49	873	890	13 Dec 74	30 Dec 74
34	603	620	18 Mar 74	4 Apr 74	50	891	908	31 Dec 74	17 Jan 75
35	621	638	5 Apr 74	22 Apr 74	51	909	926	18 Jan 75	4 Feb 75
36	639	656	23 Apr 74	11 May 74	52	927	944	5 Feb 75	22 Feb 75
37	657	674	12 May 74	28 May 74	53	945	962	23 Feb 75	12 Mar 75
38	675	692	29 May 74	15 Jun 74	54	963	980	13 Mar 75	30 Mar 75
39	693	710	16 Jun 74	3 Jul 74	55	981	998	31 Mar 75	17 Apr 75
40	711	728	4 Jul 74	21 Jul 74	56	999	1016	18 Apr 75	5 May 75
41	729	746	22 Jul 74	8 Aug 74	57	1017	1034	6 May 75	23 May 75
42	747	764	9 Aug 74	26 Aug 74	58	1035	1052	24 May 75	10 Jun 75
43	765	782	27 Aug 74	13 Sep 74	59	1053	1070	11 Jun 75	28 Jun 75
44	783	800	14 Sep 74	1 Oct 74	60	1071	1088	29 Jun 75	16 Jul 75
45	801	818	2 Oct 74	19 Oct 74	61	1089	1106	17 Jul 75	3 Aug 75
46	819	836	20 Oct 74	6 Nov 74	62	1107	1124	4 Aug 75	21 Aug 75
47	837	854	7 Nov 74	24 Nov 74	63	1125	1142	22 Aug 75	8 Sep 75

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
64	1143	1160	9 Sep 75	26 Sep 75	80	1431	1448	23 Jun 76	10 Jul 76
65	1161	1178	27 Sep 75	14 Oct 75	81	1449	1466	11 Jul 76	28 Jul 76
66	1179	1196	15 Oct 75	1 Nov 75	82	1467	1484	29 Jul 76	15 Aug 76
67	1197	1214	2 Nov 75	19 Nov 75	83	1485	1502	16 Aug 76	2 Sep 76
68	1215	1232	20 Nov 75	7 Dec 75	84	1503	1520	3 Sep 76	20 Sep 76
69	1233	1250	8 Dec 75	25 Dec 75	85	1521	1538	21 Sep 76	8 Oct 76
70	1251	1268	26 Dec 75	12 Jan 76	86	1539	1556	9 Oct 76	26 Oct 76
71	1269	1286	13 Jan 76	30 Jan 76	87	1557	1574	27 Oct 76	13 Nov 76
72	1287	1304	31 Jan 76	17 Feb 76	88	1575	1592	14 Nov 76	1 Dec 76
73	1305	11322	18 Feb 76	6 Mar 76	89	1593	1610	2 Dec 76	19 Dec 76
74	1323	1340	7 Mar 76	24 Mar 76	90	1611	1628	20 Dec 76	6 Jan 77
75	1341	1358	25 Mar 76	11 Apr 76	91	1629	1646	7 Jan 77	24 Jan 77
76	1359	1376	12 Apr 76	29 Apr 76	92	1647	1664	25 Jan 77	11 Feb 77
77	1377	1394	30 Apr 76	17 May 76	93	1665	1682	12 Feb 77	1 Mar 77
78	1395	1412	18 May 76	4 Jun 76	94	1683	1700	2 Mar 77	19 Mar 77
79	1413	1430	5 Jun 76	22 Jun 76	95	1701	1718	20 Mar 77	6 Apr 77

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SECTION 3.2 — LANDSAT 2 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 22 days	1	22	22 Jan 75	13 Feb 75	19	347	364	4 Jan 76	21 Jan 76
1	23	40	14 Feb 75	3 Mar 75	20	365	382	22 Jan 76	8 Feb 76
2	41	58	4 Mar 75	21 Mar 75	21	383	400	9 Feb 76	26 Feb 76
3	59	76	22 Mar 75	8 Apr 75	22	401	418	27 Feb 76	15 Mar 76
4	77	94	9 Apr 75	26 Apr 75	23	419	436	16 Mar 76	2 Apr 76
5	95	112	27 Apr 75	14 May 75	24	437	454	3 Apr 76	20 Apr 76
6	113	130	15 May 75	1 Jun 75	25	455	472	21 Apr 76	8 May 76
7	131	148	2 Jun 75	19 Jun 75	26	473	490	9 May 76	26 May 76
8	149	188	20 Jun 75	7 Jul 75	27	491	508	27 May 76	13 Jun 76
9	167	184	8 Jul 75	25 Jul 75	28	509	526	14 Jun 76	1 Jul 76
10	185	202	26 Jul 75	12 Aug 75	29	527	544	2 Jul 76	19 Jul 76
11	203	220	13 Aug 75	30 Aug 75	30	545	562	20 Jul 76	6 Aug 76
12	221	238	31 Aug 75	17 Sep 75	31	563	580	7 Aug 76	24 Aug 76
13	239	256	18 Sep 75	5 Oct 75	32	581	598	25 Aug 76	11 Sep 76
14	257	274	6 Oct 75	23 Oct 75	33	599	616	12 Sep 76	29 Sep 76
15	275	292	24 Oct 75	10 Nov 75	34	617	634	30 Sep 76	17 Oct 76
16	293	310	11 Nov 75	28 Nov 75	35	635	652	18 Oct 76	4 Nov 76
17	311	328	29 Nov 75	16 Dec 75	36	653	670	5 Nov 76	22 Nov 76
18	329	346	17 Dec 75	3 Jan 76	37	671	688	23 Nov 76	10 Dec 76

OBSERVATION ID LISTING

LANDSAT-1
OBSERVATION ID LISTING
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05:39 OCT 22,'77 PAGE 0001

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5461-13590	00000/0000	1-20072/0010	07/23/76	10	0371	5017N	06536W	47.8	122.1		GGGG			11	125
5461-13593	00000/0000	1-20072/0011	07/23/76	10	0371	4852N	06614W	48.2	120.2		FGGG			11	126
5461-15422	00000/0000	1-20071/0265	07/23/76	30	0372	5019N	09124W	47.8	122.2		GGGG			29	125
5461-17254	00000/0000	1-20072/0013	07/23/76	70	0373	5018N	11715W	47.8	122.2		GGGG			47	25
5462-15480	00000/0000	1-20071/0266	07/24/76	60	0386	5017N	09251W	47.6	122.3		GGGG			30	25
5462-17311	00000/0000	1-20072/0015	07/24/76	40	0387	5019N	11840W	47.6	122.4		GGGG			48	25
5463-14173	00000/0000	1-20072/0012	07/25/76	20	0399	2602N	07637W	49.3	89.9		GGGG		H	13	42
5463-17365	00000/0000	1-20072/0014	07/25/76	0	0401	5017N	12006W	47.4	122.5		GGG			49	25
5464-14163	00000/0000	1-20072/0025	07/26/76	40	0413	4859N	07034W	47.7	120.8		GGGG			14	26
5464-14231	00000/0000	1-20072/0026	07/26/76	30	0413	2607N	07803W	49.3	90.2		GGGG			14	42
5464-14233	00000/0000	1-20072/0027	07/26/76	30	0413	2439N	07825W	49.0	88.4		GGGG			14	43
5466-12440	00000/0000	1-20072/0028	07/28/76	80	0440	5020N	04654W	46.8	123.0		GGGG			249	25
5466-12443	00000/0000	1-20072/0029	07/28/76	90	0440	4855N	04733W	47.3	121.1		GGGG			249	26
5466-12445	00000/0000	1-20072/0030	07/28/76	100	0440	4729N	04810W	47.7	119.2		GGGF			249	27
5466-12452	00000/0000	1-20072/0031	07/28/76	70	0440	4604N	04845W	48.1	117.3		GFGF			249	28
5466-12454	00000/0000	1-20072/0032	07/28/76	40	0440	4439N	04918W	48.4	115.4		GGGG			249	29
5466-12461	00000/0000	1-20072/0033	07/28/76	80	0440	4314N	04950W	48.7	113.5		GGGG			249	30
5466-12463	00000/0000	1-20072/0034	07/28/76	80	0440	4148N	05020W	49.0	111.6		GGGG			249	31
5467-12492	00000/0000	1-20072/0016	07/29/76	20	0454	5146N	04740W	46.1	125.1		GGGG			250	24
5467-12494	00000/0000	1-20072/0017	07/29/76	30	0454	5020N	04822W	46.6	123.2		GGGG			250	25
5467-12501	00000/0000	1-20072/0018	07/29/76	30	0454	4854N	04901W	47.1	121.3		GGGG			250	26
5467-12503	00000/0000	1-20072/0019	07/29/76	70	0454	4729N	04937W	47.5	119.4		GGGG			250	27
5467-12510	00000/0000	1-20072/0020	07/29/76	50	0454	4604N	05010W	47.9	117.5		GGGG			250	28
5467-12512	00000/0000	1-20072/0021	07/29/76	40	0454	4440N	05043W	48.3	115.6		GGGG			250	29
5467-12515	00000/0000	1-20072/0022	07/29/76	40	0454	4314N	05115W	48.6	113.7		GGGG			250	30
5467-12521	00000/0000	1-20072/0023	07/29/76	40	0454	4148N	05146W	48.8	111.8		GGGG			250	31
5467-14332	00000/0000	1-20072/0024	07/29/76	10	0455	4854N	07450W	47.1	121.3		GGGG			17	26
5468-12550	00000/0000	1-20072/0035	07/30/76	90	0468	5150N	04910W	45.9	125.3		GGGG			251	24
5468-12552	00000/0000	1-20072/0036	07/30/76	90	0468	5026N	04950W	46.4	123.4		FGGG			251	25
5468-12555	00000/0000	1-20072/0037	07/30/76	90	0468	4857N	05028W	46.9	121.5		GGFG			251	26
5468-12561	00000/0000	1-20072/0038	07/30/76	90	0468	4730N	05104W	47.3	119.7		GGGG			251	27
5468-12564	00000/0000	1-20072/0039	07/30/76	90	0468	4603N	05138W	47.7	117.8		GGGG			251	28
5468-12570	00000/0000	1-20072/0040	07/30/76	80	0468	4438N	05210W	48.1	115.9		GGGG			251	29
5468-12573	00000/0000	1-20072/0041	07/30/76	60	0468	4313N	05242W	48.4	114.0		GGGG			251	30
5468-12575	00000/0000	1-20072/0042	07/30/76	50	0468	4149N	05312W	48.7	112.1		GGGG			251	31
5469-13001	00000/0000	1-20072/0043	07/31/76	90	0482	5307N	04952W	45.2	127.2		GGGG			1	23

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	MICROFILM POSITION MSS	ROLL NO./ IN ROLL RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5469-13004	00000/0000		1-20072/0044		07/31/76	90	0482	5143N	05034W	45.7	125.4		GGGG			1	24
5469-13010	00000/0000		1-20072/0045		07/31/76	90	0482	5018N	05114W	46.2	123.5		GGGG			1	25
5469-13013	00000/0000		1-20072/0046		07/31/76	90	0482	4853N	05153W	46.7	121.7		GGGG			1	26
5469-13015	00000/0000		1-20072/0047		07/31/76	40	0482	4728N	05229W	47.1	119.8		GGGG			1	27
5469-13022	00000/0000		1-20072/0048		07/31/76	90	0482	4602N	05304W	47.5	117.9		GGGG			1	28
5469-13024	00000/0000		1-20072/0049		07/31/76	90	0482	4437N	05337W	47.9	116.1		GGGG			1	29
5469-13031	00000/0000		1-20072/0050		07/31/76	90	0482	4311N	05409W	48.2	114.2		GGGG			1	30
5469-13033	00000/0000		1-20072/0051		07/31/76	70	0482	4146N	05439W	48.5	112.3		GGGG			1	31
5470-13055	00000/0000		1-20072/0069		08/01/76	70	0496	5307N	05118W	45.0	127.4		GGGG			2	23
5470-13062	00000/0000		1-20072/0070		08/01/76	90	0496	5143N	05159W	45.5	125.6		GGGG			2	24
5470-13064	00000/0000		1-20072/0071		08/01/76	90	0496	5019N	05238W	46.0	123.7		GGGG			2	25
5470-13071	00000/0000		1-20072/0072		08/01/76	90	0496	4853N	05318W	46.5	121.9		GGFG			2	26
5470-13073	00000/0000		1-20072/0073		08/01/76	90	0496	4727N	05355W	46.9	120.0		GGGG			2	27
5470-13080	00000/0000		1-20072/0074		08/01/76	100	0496	4601N	05430W	47.3	118.2		GGGG			2	28
5470-13082	00000/0000		1-20072/0075		08/01/76	70	0496	4435N	05503W	47.7	116.3		FFGG			2	29
5470-13085	00000/0000		1-20072/0076		08/01/76	70	0496	4311N	05535W	48.0	114.5		GGGG			2	30
5470-13091	00000/0000		1-20072/0077		08/01/76	90	0496	4146N	05605W	48.3	112.6		GGGG			2	31
5470-14500	00000/0000		1-20072/0078		08/01/76	90	0497	5020N	07830W	46.0	123.8		GGGG			20	25
5471-13111	00000/0000		1-20072/0058		08/02/76	70	0510	5433N	05200W	44.2	129.4		GGGG			3	22
5471-13113	00000/0000		1-20072/0059		08/02/76	70	0510	5308N	05243W	44.7	127.6		GGGG			3	23
5471-13120	00000/0000		1-20072/0060		08/02/76	90	0510	5143N	05323W	45.3	125.8		GGGG			3	24
5471-13122	00000/0000		1-20072/0061		08/02/76	80	0510	5019N	05402W	45.8	124.0		GGGG			3	25
5471-13125	00000/0000		1-20072/0062		08/02/76	70	0510	4855N	05440W	46.3	122.1		GGGG			3	26
5471-13131	00000/0000		1-20072/0063		08/02/76	80	0510	4730N	05517W	46.7	120.3		GGGG			3	27
5471-13134	00000/0000		1-20072/0064		08/02/76	70	0510	4604N	05553W	47.1	118.4		GGGG			3	28
5471-13140	00000/0000		1-20072/0065		08/02/76	80	0510	4438N	05627W	47.5	116.6		GGGG			3	29
5471-13143	00000/0000		1-20072/0066		08/02/76	40	0510	4313N	05700W	47.8	114.7		FGGG			3	30
5471-13145	00000/0000		1-20072/0067		08/02/76	20	0510	4147N	05731W	48.1	112.9		FGGG			3	31
5471-14554	00000/0000		1-20072/0068		08/02/76	90	0511	5021N	07954W	45.8	124.0		GGGG			21	25
5471-16365	00000/0000		1-20072/0052		08/02/76	10	0512	5723N	10201W	42.9	133.2		FGGG			39	20
5471-16371	00000/0000		1-20072/0053		08/02/76	10	0512	5559N	10252W	43.5	131.3		FGGG			39	21
5471-16374	00000/0000		1-20072/0054		08/02/76	10	0512	5435N	10339W	44.1	129.5		FGGG			39	22
5471-16380	00000/0000		1-20072/0055		08/02/76	30	0512	5311N	10423W	44.7	127.7		FGGG			39	23
5471-16383	00000/0000		1-20072/0056		08/02/76	10	0512	5146N	10506W	45.2	125.8		GGGG			39	24
5471-16385	00000/0000		1-20072/0057		08/02/76	10	0512	5022N	10546W	45.7	124.0		GGGG			39	25
5472-13171	00000/0000		1-20072/0079		08/03/76	10	0524	5310N	05408W	44.5	127.8		GP F	L		4	23

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LANDSAT-1
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OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5472-13173	00000/0000	1-20072/0080	08/03/76	20	0524	5146N	05448W	45.0	126.0		FPGG			4	24
5472-13180	00000/0000	1-20072/0081	08/03/76	10	0524	5021N	05527W	45.6	124.2		FPGG			4	25
5472-13182	00000/0000	1-20072/0082	08/03/76	10	0524	4856N	05605W	46.1	122.4		GPGG			4	26
5472-13185	00000/0000	1-20072/0083	08/03/76	20	0524	4731N	05642W	46.5	120.5		GPGG			4	27
5472-13191	00000/0000	1-20072/0084	08/03/76	80	0524	4606N	05718W	46.9	118.7		GPGG			4	28
5472-13194	00000/0000	1-20072/0085	08/03/76	80	0524	4440N	05752W	47.3	116.9		GGGG			4	29
5472-13200	00000/0000	1-20072/0086	08/03/76	90	0524	4315N	05824W	47.6	115.0		GGGG			4	30
5472-13203	00000/0000	1-20072/0087	08/03/76	90	0524	4149N	05855W	47.9	113.2		GGGG			4	31
5472-15012	00000/0000	1-20072/0088	08/03/76	10	0525	5019N	08120W	45.6	124.2		GGGG			22	25
5473-13220	00000/0000	1-20072/0089	08/04/76	60	0538	5558N	05404W	43.1	131.6		GFGG			5	21
5473-13222	00000/0000	1-20072/0090	08/04/76	80	0538	5433N	05452W	43.7	129.8		GFGG			5	22
5473-13225	00000/0000	1-20072/0091	08/04/76	50	0538	5308N	05536W	44.3	128.0		FFGG			5	23
5473-13231	00000/0000	1-20072/0092	08/04/76	10	0538	5144N	05618W	44.8	126.2		FFGG			5	24
5473-13234	00000/0000	1-20072/0093	08/04/76	10	0538	5019N	05658W	45.3	124.4		GFGG			5	25
5473-13240	00000/0000	1-20072/0094	08/04/76	20	0538	4855N	05734W	45.8	122.6		FFGG			5	26
5473-13243	00000/0000	1-20072/0095	08/04/76	40	0538	4731N	05808W	46.3	120.8		GFGG			5	27
5473-13245	00000/0000	1-20072/0096	08/04/76	40	0538	4607N	05842W	46.7	119.0		GFGG			5	28
5473-13252	00000/0000	1-20072/0097	08/04/76	50	0538	4442N	05915W	47.1	117.1		FFGF			5	29
5473-13254	00000/0000	1-20072/0098	08/04/76	50	0538	4316N	05948W	47.4	115.3		GFGG			5	30
5473-13261	00000/0000	1-20072/0099	08/04/76	50	0538	4149N	06020W	47.8	113.5		GFFG			5	31
5473-15065	00000/0000	1-20072/0100	08/04/76	90	0539	5019N	08249W	45.3	124.4		GFGG			23	25
5473-16481	00000/0000	1-20072/0101	08/04/76	0	0540	5720N	10452W	42.4	133.4		FGFG			41	20
5473-16483	00000/0000	1-20072/0102	08/04/76	10	0540	5555N	10543W	43.0	131.6		FGGG			41	21
5473-16490	00000/0000	1-20072/0103	08/04/76	10	0540	5431N	10630W	43.7	129.8		PFFF			41	22
5473-16492	00000/0000	1-20072/0104	08/04/76	40	0540	5307N	10715W	44.2	128.0		FFFG			41	23
5473-16495	00000/0000	1-20072/0105	08/04/76	90	0540	5143N	10756W	44.8	126.2		FFFG			41	24
5473-16501	00000/0000	1-20072/0106	08/04/76	90	0540	5018N	10836W	45.3	124.4		FFGG			41	25
5473-16560	00000/0000	1-20072/0107	08/04/76	10	0540	3021N	11538W	48.8	98.7		GGGG			41	39
5474-13274	00000/0000	1-20072/0108	08/05/76	0	0552	5556N	05530W	42.8	131.7		FFFF			6	21
5474-13280	00000/0000	1-20072/0109	08/05/76	20	0552	5431N	05618W	43.5	129.9		FFFF			6	22
5474-13283	00000/0000	1-20072/0110	08/05/76	50	0552	5306N	05703W	44.0	128.2		GFFG			6	23
5474-13285	00000/0000	1-20072/0111	08/05/76	80	0552	5141N	05745W	44.6	126.4		GFFG			6	24
5474-13292	00000/0000	1-20072/0112	08/05/76	80	0552	5017N	05825W	45.1	124.6		FFGG			6	25
5474-13294	00000/0000	1-20072/0113	08/05/76	40	0552	4852N	05902W	45.6	122.8		GFGG			6	26
5474-13301	00000/0000	1-20072/0114	08/05/76	20	0552	4728N	05939W	46.1	121.0		GFGF			6	27
5474-13303	00000/0000	1-20072/0115	08/05/76	40	0552	4602N	06013W	46.5	119.2		FFFG			6	28

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LANDSAT-1
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OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW - NUMBER
5474-13310	00000/0000	1-20072/0116	08/05/76	60	0552	4437N	06046W	46.9	117.4		FFGG			6	29
5474-13312	00000/0000	1-20072/0117	08/05/76	60	0552	4312N	06118W	47.3	115.5		GFFG			6	30
5474-13315	00000/0000	1-20072/0118	08/05/76	40	0552	4147N	06148W	47.6	113.7		GFGF			6	31
5475-15163	00000/0000	1-20072/0119	08/06/76	60	0567	5556N	08245W	42.6	131.9		GGGG			25	21
5475-15170	00000/0000	1-20072/0120	08/06/76	30	0567	5430N	08333W	43.2	130.1		GGGG			25	22
5475-15172	00000/0000	1-20072/0121	08/06/76	0	0567	5304N	08418W	43.8	128.4		GFGG			25	23
5475-15175	00000/0000	1-20072/0122	08/06/76	0	0567	5140N	08500W	44.4	126.6		GGGG			25	24
5475-15181	00000/0000	1-20072/0123	08/06/76	10	0567	5016N	08540W	44.9	124.8		GGGG			25	25
5476-13383	00000/0000	1-20072/0124	08/07/76	70	0580	5721N	05730W	41.7	133.9		FGGG			8	20
5476-13390	00000/0000	1-20072/0125	08/07/76	70	0580	5556N	05822W	42.3	132.1		FGGG			8	21
5476-13392	00000/0000	1-20072/0126	08/07/76	60	0580	5431N	05910W	43.0	130.4		GGGG			8	22
5476-13395	00000/0000	1-20072/0127	08/07/76	40	0580	5306N	05955W	43.6	128.6		GGGG			8	23
5476-13401	00000/0000	1-20072/0128	08/07/76	20	0580	5142N	06037W	44.1	126.8		GGGG			8	24
5476-13404	00000/0000	1-20072/0129	08/07/76	10	0580	5018N	06115W	44.7	125.1		GGGG			8	25
5476-13410	00000/0000	1-20072/0130	08/07/76	0	0580	4854N	06152W	45.2	123.3		GGGG			8	26
5476-13413	00000/0000	1-20072/0131	08/07/76	10	0580	4730N	06229W	45.6	121.5		GGGG			8	27
5476-13415	00000/0000	1-20072/0132	08/07/76	50	0580	4604N	06304W	46.1	119.7		GGGG			8	28
5476-13422	00000/0000	1-20072/0133	08/07/76	60	0580	4437N	06338W	46.5	118.0		GGGG			8	29
5476-13424	00000/0000	1-20072/0134	08/07/76	100	0580	4312N	06410W	46.9	116.2		GGGG			8	30
5476-13431	00000/0000	1-20072/0135	08/07/76	70	0580	4146N	06441W	47.2	114.4		GGGG			8	31
5476-15233	00000/0000	1-20072/0136	08/07/76	10	0581	5145N	08623W	44.1	126.8		GGGG			26	24
5476-15235	00000/0000	1-20072/0137	08/07/76	0	0581	5020N	08704W	44.7	125.1		GGGG			26	25
5476-17071	00000/0000	1-20072/0138	08/07/76	20	0582	5017N	11253W	44.6	125.1		G GG			44	25
5476-17123	00000/0000	1-20072/0139	08/07/76	80	0582	3147N	11928W	48.4	101.7		GGGG			44	38
5477-15293	00000/0000	1-20072/0140	08/08/76	50	0595	5022N	08829W	44.4	125.3		GGG			27	25
5477-17125	00000/0000	1-20072/0141	08/08/76	90	0596	5018N	11418W	44.4	125.3		GGGG			45	25
5477-17181	00000/0000	1-20072/0142	08/08/76	90	0596	3149N	12056W	48.3	102.1		GGGG			45	38
5478-15342	00000/0000	1-20072/0007	08/09/76	10	0609	5308N	08835W	43.0	129.1		GGG			28	23
5478-15345	00000/0000	1-20072/0008	08/09/76	10	0609	5144N	08917W	43.6	127.3		GGGG			28	24
5478-15351	00000/0000	1-20072/0009	08/09/76	10	0609	5021N	08956W	44.2	125.6		GGGG			28	25
5478-15424	00000/0000	1-20072/0143	08/09/76	10	0609	2436N	09829W	47.9	93.6		GGFG			28	43
5478-17183	00000/0000	1-20072/0144	08/09/76	90	0610	5020N	11544W	44.2	125.6		GGGG			46	25
5478-17235	00000/0000	1-20072/0145	08/09/76	90	0610	3151N	12223W	48.1	102.5		GGGG			46	38
5479-15482	00000/0000	1-20072/0146	08/10/76	10	0623	2436N	09954W	47.8	94.0		GGGG			29	43
5480-14034	00000/0000	1-20072/0147	08/11/76	10	0636	4855N	06738W	44.2	124.3		GGGG			12	26
5480-14075	00000/0000	1-20072/0148	08/11/76	20	0636	3438N	07243W	47.7	106.8		FGGG			12	36

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ORIGINAL PAGE IS
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05:39 OCT 22,'77

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ ROLL IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5482-14143	00000/0000	1-20072/0155	08/13/76	90	0664	5020N	06953W	43.2	126.5		GGGG			14	25
5482-14150	00000/0000	1-20072/0156	08/13/76	90	0664	4855N	07031W	43.8	124.8		GGGG			14	26
5482-15575	00000/0000	1-20072/0149	08/13/76	80	0665	5022N	09541W	43.2	126.6		GG			32	25
5484-16073	00000/0000	1-20072/0150	08/15/76	10	0693	5558N	09540W	40.2	133.7		FGGG			34	21
5484-16075	00000/0000	1-20072/0151	08/15/76	30	0693	5433N	09627W	40.9	132.0		GFGG			34	22
5484-16082	00000/0000	1-20072/0152	08/15/76	30	0693	5308N	09711W	41.5	130.4		GGGG			34	23
5484-16084	00000/0000	1-20072/0153	08/15/76	10	0693	5144N	09753W	42.1	128.7		GGGG			34	24
5484-16091	00000/0000	1-20072/0154	08/15/76	10	0693	5019N	09832W	42.7	127.1		GGGG			34	25
5485-12475	00000/0000	1-20072/0157	08/16/76	90	0705	5147N	04739W	41.9	129.0		FGGG			250	24
5485-12481	00000/0000	1-20072/0158	08/16/76	90	0705	5021N	04819W	42.5	127.3		FGGG			250	25
5485-12484	00000/0000	1-20072/0159	08/16/76	90	0705	4856N	04856W	43.0	125.7		GGGG			250	26
5485-12490	00000/0000	1-20072/0160	08/16/76	90	0705	4732N	04932W	43.6	124.0		GGGG			250	27
5485-12493	00000/0000	1-20072/0161	08/16/76	100	0705	4607N	05006W	44.1	122.3		GGGG			250	28
5485-12495	00000/0000	1-20072/0162	08/16/76	100	0705	4442N	05040W	44.5	120.7		GGGG			250	29
5485-12502	00000/0000	1-20072/0163	08/16/76	90	0705	4315N	05113W	45.0	119.0		GGGG			250	30
5485-12504	00000/0000	1-20072/0164	08/16/76	40	0705	4149N	05144W	45.4	117.3		GGGG			250	31
5485-16122	00000/0000	1-20072/0165	08/16/76	90	0707	5844N	09519W	38.5	137.3		GGGF			35	19
5485-16124	00000/0000	1-20072/0166	08/16/76	20	0707	5721N	09612W	39.2	135.6		GGG			35	20
5485-16131	00000/0000	1-20072/0167	08/16/76	10	0707	5557N	09702W	39.9	133.9		GGG			35	21
5485-16133	00000/0000	1-20072/0168	08/16/76	10	0707	5433N	09750W	40.6	132.3		GGGG			35	22
5485-16140	00000/0000	1-20072/0169	08/16/76	0	0707	5308N	09835W	41.2	130.6		GFGG			35	23
5485-16142	00000/0000	1-20072/0170	08/16/76	10	0707	5144N	09918W	41.9	129.0		GGGG			35	24
5485-16145	00000/0000	1-20072/0171	08/16/76	60	0707	5019N	09959W	42.5	127.3		FGGG			35	25
5486-12533	00000/0000	1-20072/0172	08/17/76	100	0719	5148N	04900W	41.6	129.2		GFFG			251	24
5486-12535	00000/0000	1-20072/0173	08/17/76	100	0719	5023N	04940W	42.2	127.6		GFGG			251	25
5486-12542	00000/0000	1-20072/0174	08/17/76	80	0719	4858N	05019W	42.8	126.0		GFGG			251	26
5486-12544	00000/0000	1-20072/0175	08/17/76	100	0719	4733N	05055W	43.3	124.3		GFGG			251	27
5486-12551	00000/0000	1-20072/0176	08/17/76	90	0719	4608N	05130W	43.8	122.7		GFGG			251	28
5486-12553	00000/0000	1-20072/0177	08/17/76	80	0719	4443N	05204W	44.3	121.0		FFGG			251	29
5486-12560	00000/0000	1-20072/0178	08/17/76	30	0719	4318N	05236W	44.8	119.3		FFGF			251	30
5486-12562	00000/0000	1-20072/0179	08/17/76	30	0719	4151N	05307W	45.2	117.7		FFGF			251	31
5486-14364	00000/0000	1-20072/0180	08/17/76	10	0720	5145N	07455W	41.6	129.2		FGGG			18	24
5486-14371	00000/0000	1-20072/0181	08/17/76	30	0720	5021N	07535W	42.2	127.6		FFGG			18	25
5486-16202	00000/0000	1-20072/0182	08/17/76	70	0721	5021N	10122W	42.2	127.6		FFGG			36	25
5487-12584	00000/0000	1-20072/0183	08/18/76	90	0733	5308N	04951W	40.8	131.0		GFGG			1	23
5487-12591	00000/0000	1-20072/0184	08/18/76	80	0733	5143N	05032W	41.4	129.4		GFGG			1	24

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LANDSAT-1
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FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5487-12593	00000/0000	1-20072/0185	08/18/76	70	0733	5019N	05111W	42.0	127.8		GFGF			1	25
5487-13000	00000/0000	1-20072/0186	08/18/76	70	0733	4855N	05149W	42.6	126.2		GFGF			1	26
5487-13002	00000/0000	1-20072/0187	08/18/76	60	0733	4730N	05225W	43.1	124.5		GFGF			1	27
5487-13005	00000/0000	1-20072/0188	08/18/76	90	0733	4604N	05300W	43.6	122.9		FFGF			1	28
5487-13011	00000/0000	1-20072/0189	08/18/76	90	0733	4438N	05334W	44.1	121.3		GFFF			1	29
5487-13014	00000/0000	1-20072/0190	08/18/76	90	0733	4313N	05406W	44.6	119.6		GFFF			1	30
5487-13020	00000/0000	1-20072/0191	08/18/76	80	0733	4147N	05436W	45.0	117.9		FFFF			1	31
5488-13042	00000/0000	1-20072/0194	08/19/76	40	0747	5308N	05114W	40.5	131.3		FGFF			2	23
5488-13045	00000/0000	1-20072/0195	08/19/76	10	0747	5144N	05155W	41.1	129.7		FGGF			2	24
5488-13051	00000/0000	1-20072/0196	08/19/76	30	0747	5020N	05234W	41.7	128.1		FGFF			2	25
5488-13054	00000/0000	1-20072/0197	08/19/76	20	0747	4855N	05312W	42.3	126.5		FGGG			2	26
5488-13060	00000/0000	1-20072/0198	08/19/76	10	0747	4730N	05348W	42.9	124.8		FGGG			2	27
5488-13063	00000/0000	1-20072/0199	08/19/76	20	0747	4604N	05423W	43.4	123.2		FGGG			2	28
5488-13065	00000/0000	1-20072/0200	08/19/76	70	0747	4440N	05456W	43.9	121.6		FFGG			2	29
5488-13072	00000/0000	1-20072/0201	08/19/76	90	0747	4314N	05528W	44.3	119.9		FGGG			2	30
5488-13074	00000/0000	1-20072/0202	08/19/76	90	0747	4148N	05559W	44.8	118.3		FFFF			2	31
5488-14480	00000/0000	1-20072/0203	08/19/76	90	0748	5142N	07747W	41.1	129.7		GGGF			20	24
5488-14483	00000/0000	1-20072/0204	08/19/76	80	0748	5018N	07827W	41.7	128.1		GGGF			20	25
5488-16312	00000/0000	1-20072/0192	08/19/76	10	0749	5141N	10336W	41.1	129.7		GGGG			38	24
5488-16314	00000/0000	1-20072/0193	08/19/76	10	0749	5017N	10416W	41.7	128.1		GGGG			38	25
5489-13094	00000/0000	1-20072/0211	08/20/76	70	0761	5433N	05157W	39.5	133.1		GGGG			3	22
5489-13100	00000/0000	1-20072/0212	08/20/76	90	0761	5310N	05240W	40.2	131.5		GGGG			3	23
5489-13103	00000/0000	1-20072/0213	08/20/76	90	0761	5146N	05321W	40.8	129.9		GGGG			3	24
5489-13105	00000/0000	1-20072/0214	08/20/76	60	0761	5021N	05400W	41.5	128.4		GGGG			3	25
5489-13112	00000/0000	1-20072/0215	08/20/76	10	0761	4857N	05437W	42.0	126.8		GGFG			3	26
5489-13114	00000/0000	1-20072/0216	08/20/76	10	0761	4733N	05513W	42.6	125.2		GGGG			3	27
5489-13121	00000/0000	1-20072/0217	08/20/76	50	0761	4608N	05549W	43.1	123.5		GGGG			3	28
5489-13123	00000/0000	1-20072/0218	08/20/76	100	0761	4443N	05624W	43.6	121.9		GGGG			3	29
5489-13130	00000/0000	1-20072/0219	08/20/76	80	0761	4318N	05656W	44.1	120.3		GGGG			3	30
5489-13132	00000/0000	1-20072/0220	08/20/76	60	0761	4152N	05727W	44.5	118.7		GGGG			3	31
5489-16352	00000/0000	1-20072/0205	08/20/76	60	0763	5719N	10159W	38.1	136.4		FGGG			39	20
5489-16354	00000/0000	1-20072/0206	08/20/76	70	0763	5555N	10248W	38.8	134.8		FGGG			39	21
5489-16361	00000/0000	1-20072/0207	08/20/76	90	0763	5431N	10335W	39.5	133.1		GGGG			39	22
5489-16363	00000/0000	1-20072/0208	08/20/76	90	0763	5307N	10420W	40.2	131.5		GGFG			39	23
5489-16370	00000/0000	1-20072/0209	08/20/76	70	0763	5142N	10502W	40.8	129.9		GGGG			39	24
5489-16372	00000/0000	1-20072/0210	08/20/76	60	0763	5018N	10542W	41.4	128.4		GGGG			39	25

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5490-13151	00000/0000	1-20072/0239	08/21/76	90	0775	5433N	05323W	39.2	133.4		GGGG			4	22
5490-13154	00000/0000	1-20072/0240	08/21/76	80	0775	5309N	05407W	39.9	131.8		GGGG			4	23
5490-13160	00000/0000	1-20072/0241	08/21/76	20	0775	5145N	05449W	40.6	130.2		GGGG			4	24
5490-13163	00000/0000	1-20072/0242	08/21/76	30	0775	5021N	05529W	41.2	128.6		GGGG			4	25
5490-13165	00000/0000	1-20072/0243	08/21/76	20	0775	4857N	05605W	41.8	127.0		GGGG			4	26
5490-13172	00000/0000	1-20072/0244	08/21/76	10	0775	4733N	05642W	42.3	125.5		FGGF			4	27
5490-13174	00000/0000	1-20072/0245	08/21/76	60	0775	4608N	05718W	42.9	123.9		GGGG			4	28
5490-13181	00000/0000	1-20072/0246	08/21/76	90	0775	4443N	05754W	43.4	122.3		GGGG			4	29
5490-13183	00000/0000	1-20072/0247	08/21/76	80	0775	4317N	05827W	43.9	120.6		GGGG			4	30
5490-13190	00000/0000	1-20072/0248	08/21/76	50	0775	4151N	05856W	44.3	119.0		GGGF			4	31
5490-14592	00000/0000	1-20072/0249	08/21/76	10	0776	5146N	08041W	40.5	130.2		GGGG			22	24
5490-14595	00000/0000	1-20072/0250	08/21/76	0	0776	5019N	08120W	41.2	128.6		GGGG			22	25
5490-16410	00000/0000	1-20072/0221	08/21/76	90	0777	5719N	10325W	37.8	136.6		GGGG			40	20
5490-16412	00000/0000	1-20072/0222	08/21/76	90	0777	5555N	10415W	38.5	135.0		FGGG			40	21
5490-16415	00000/0000	1-20072/0223	08/21/76	70	0777	5430N	10502W	39.2	133.4		FGGG			40	22
5490-16421	00000/0000	1-20072/0224	08/21/76	10	0777	5306N	10546W	39.9	131.8		GGGG			40	23
5490-16424	00000/0000	1-20072/0225	08/21/76	0	0777	5141N	10628W	40.5	130.2		GGGG			40	24
5490-16430	00000/0000	1-20072/0226	08/21/76	0	0777	5016N	10709W	41.2	128.6		GGGG			40	25
5491-13203	00000/0000	1-20072/0227	08/22/76	60	0789	5554N	05406W	38.3	13542		GFGG			5	21
5491-13205	00000/0000	1-20072/0228	08/22/76	40	0789	5430N	05453W	39.0	13346		GFGF			5	22
5491-13212	00000/0000	1-20072/0229	08/22/76	10	0789	5307N	05537W	39.7	13240		FFGG			5	23
5491-13214	00000/0000	1-20072/0230	08/22/76	20	0789	5143N	05619W	40.3	130.4		GFGG			5	24
5491-13221	00000/0000	1-20072/0231	08/22/76	10	0789	5019N	05659W	40.9	12849		FGGG			5	25
5491-13223	00000/0000	1-20072/0232	08/22/76	10	0789	4854N	05738W	41.5	127.3		GGGF			5	26
5491-13230	00000/0000	1-20072/0233	08/22/76	20	0789	4730N	05814W	42.1	125.7		GFGG			5	27
5491-13232	00000/0000	1-20072/0234	08/22/76	20	0789	4605N	05847W	42.6	124.1		GFGG			5	28
5491-13235	00000/0000	1-20072/0235	08/22/76	40	0789	4439N	05919W	43.2	122.5		GGFG			5	29
5491-13241	00000/0000	1-20072/0236	08/22/76	60	0789	4314N	05950W	43.6	120.9		GGGG			5	30
5491-13244	00000/0000	1-20072/0237	08/22/76	70	0789	4147N	06020W	44.1	119.3		GGGG			5	31
5491-15052	00000/0000	1-20072/0238	08/22/76	20	0790	5022N	08247W	40.9	12849		GGGG			23	25
5491-16464	00000/0000	1-20073/0001	08/22/76	30	0791	5720N	10449W	37.5	136.8		FGGG			41	20
5491-16470	00000/0000	1-20073/0002	08/22/76	10	0791	5556N	10540W	38.2	135.2		GFGG			41	21
5491-16473	00000/0000	1-20073/0003	08/22/76	10	0791	5432N	10627W	38.9	133.6		FGGG			41	22
5491-16475	00000/0000	1-20073/0004	08/22/76	10	0791	5308N	10712W	39.6	132.1		FGFG			41	23
5491-16482	00000/0000	1-20073/0005	08/22/76	0	0791	5143N	10754W	40.3	130.5		GGGG			41	24
5491-16484	00000/0000	1-20073/0006	08/22/76	0	0791	5019N	10834W	40.9	128.9		FGGG			41	25

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LANDSAT-1
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OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5491-16543	00000/0000	1-20073/0007	08/22/76	10	0791	3021N	11536W	46.4	106.2		FGGG			41	39
5492-13263	00000/0000	1-20072/0251	08/23/76	90	0803	5432N	05618W	38.7	133.8		GGGG			6	22
5492-13270	00000/0000	1-20072/0252	08/23/76	90	0803	5309N	05703W	39.4	132.3		GGGG			6	23
5492-13272	00000/0000	1-20072/0253	08/23/76	70	0803	5146N	05746W	40.0	130.7		GGGG			6	24
5492-13275	00000/0000	1-20072/0254	08/23/76	60	0803	5022N	05826W	40.7	129.2		GGGG			6	25
5492-13281	00000/0000	1-20072/0255	08/23/76	40	0803	4855N	05903W	41.3	127.6		GGGG			6	26
5492-13284	00000/0000	1-20072/0256	08/23/76	40	0803	4727N	05938W	41.8	126.0		GGGG			6	27
5492-13290	00000/0000	1-20072/0257	08/23/76	50	0803	4601N	06012W	42.4	124.5		GGGG			6	28
5492-13293	00000/0000	1-20072/0258	08/23/76	30	0803	4435N	06046W	42.9	122.9		GGGG			6	29
5492-13295	00000/0000	1-20072/0259	08/23/76	40	0803	4311N	06117W	43.4	121.3		GGGG			6	30
5492-13302	00000/0000	1-20072/0260	08/23/76	20	0803	4147N	06146W	43.9	119.7		GGGG			6	31
5493-13312	00000/0000	1-20072/0274	08/24/76	90	0817	5722N	05606W	36.9	137.2		GGGG			7	20
5493-13315	00000/0000	1-20072/0275	08/24/76	100	0817	5559N	05656W	37.7	13546		GGGG			7	21
5493-13321	00000/0000	1-20072/0276	08/24/76	90	0817	5434N	05743W	38.4	134.1		GGGG			7	22
5493-13324	00000/0000	1-20072/0277	08/24/76	80	0817	5309N	05828W	39.1	132.5		GGGG			7	23
5493-13330	00000/0000	1-20072/0278	08/24/76	70	0817	5144N	05911W	39.7	131.0		GGGG			7	24
5493-13333	00000/0000	1-20072/0279	08/24/76	20	0817	5020N	05951W	40.4	12944		GGGG			7	25
5493-13335	00000/0000	1-20072/0280	08/24/76	20	0817	4857N	06029W	41.0	127.9		GGGG			7	26
5493-13344	00000/0000	1-20072/0281	08/24/76	20	0817	4603N	06137W	42.1	124.8		GGGG			7	28
5493-13351	00000/0000	1-20072/0282	08/24/76	10	0817	4436N	06210W	42.7	123.2		GGGG			7	29
5493-13353	00000/0000	1-20072/0283	08/24/76	10	0817	4312N	06242W	43.2	121.7		GGGG			7	30
5493-13360	00000/0000	1-20072/0284	08/24/76	10	0817	4148N	06313W	43.6	120.1		GGGG			7	31
5494-13370	00000/0000	1-20072/0261	08/25/76	90	0831	5722N	05732W	36.6	137.5		GGGG			8	20
5494-13373	00000/0000	1-20072/0262	08/25/76	90	0831	5558N	05823W	37.4	135.9		GGGG			8	21
5494-13375	00000/0000	1-20072/0263	08/25/76	90	0831	5435N	05911W	38.1	134.3		GGGG			8	22
5494-13382	00000/0000	1-20072/0264	08/25/76	80	0831	5312N	05954W	38.8	132.8		GGGG			8	23
5494-13384	00000/0000	1-20072/0265	08/25/76	50	0831	5148N	06036W	39.4	131.3		GGPG			8	24
5494-13391	00000/0000	1-20072/0266	08/25/76	0	0831	5022N	06115W	40.1	129.7		GGGG			8	25
5494-13393	00000/0000	1-20072/0267	08/25/76	10	0831	4856N	06153W	40.7	128.2		FGGF			8	26
5494-13400	00000/0000	1-20072/0268	08/25/76	30	0831	4731N	06230W	41.3	126.7		GGGG			8	27
5494-13402	00000/0000	1-20072/0269	08/25/76	90	0831	4606N	06305W	41.9	125.1		GGGG			8	28
5494-13405	00000/0000	1-20072/0270	08/25/76	10	0831	4441N	06337W	42.4	123.6		GGGG			8	29
5494-13411	00000/0000	1-20072/0271	08/25/76	20	0831	4316N	06408W	42.9	122.0		GGFG			8	30
5494-13414	00000/0000	1-20072/0272	08/25/76	10	0831	4149N	06438W	43.4	120.5		GGGG			8	31
5494-15222	00000/0000	1-20072/0273	08/25/76	10	0832	5018N	08703W	40.1	12947		GGGG			26	25
5495-13442	00000/0000	1-20072/0285	08/26/76	10	0845	5147N	06201W	39.2	131.6		GGGG			9	24

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

05:39 OCT 22,'77 PAGE 0009

OBSERVATION ID	MICROFILM POSITION RBV . MSS	ROLL NO./ IN ROLL	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5495-13445	00000/0000	1-20072/0286	08/26/76	10	0845	5022N	06241W	39.8	130.0		GGGG			9	25
5495-13451	00000/0000	1-20072/0287	08/26/76	0	0845	4857N	06318W	40.4	128.5		GGGG			9	26
5495-13463	00000/0000	1-20072/0288	08/26/76	30	0845	4441N	06500W	42.2	123.9		GGGG			9	29
5495-13465	00000/0000	1-20072/0289	08/26/76	30	0845	4314N	06533W	42.7	122.4		GGGG			9	30
5495-13472	00000/0000	1-20072/0290	08/26/76	20	0845	4148N	06604W	43.2	120.8		GGGG			9	31
5496-13503	00000/0000	1-20072/0291	08/27/76	90	0859	5019N	06407W	39.5	130.3		FGGG			10	25
5496-13505	00000/0000	1-20072/0292	08/27/76	70	0859	4854N	06444W	40.2	128.8		FFGG			10	26
5496-13530	00000/0000	1-20072/0293	08/27/76	80	0859	4147N	06730W	42.9	121.2		FFGG			10	31
5496-15332	00000/0000	1-20072/0294	08/27/76	90	0860	5145N	08915W	38.8	131.8		FGGG			28	24
5496-15334	00000/0000	1-20072/0295	08/27/76	60	0860	5020N	08955W	39.5	130.3		FGGG			28	25
5496-17222	00000/0000	1-20073/0009	08/27/76	40	0861	3149N	12221W	45.5	110.1		GGGG			46	38
5497-17224	00000/0000	1-20073/0010	08/28/76	90	0875	5021N	11709W	39.2	130.7		GGGG			47	25
5497-17274	00000/0000	1-20073/0011	08/28/76	90	0875	3316N	12321W	45.0	112.2		GGGG			47	37
5499-15504	00000/0000	1-20073/0008	08/30/76	70	0902	5020N	09412W	38.7	131.2		GGGG			31	25
5500-15562	00000/0000	1-20073/0012	08/31/76	30	0916	5022N	09539W	38.4	131.5		FGGG			32	25
5500-17393	00000/0000	1-20073/0013	08/31/76	0	0917	5021N	12127W	38.3	131.5		GGGG			50	25
5501-17451	00000/0000	1-20073/0014	09/01/76	10	0931	5018N	12255W	38.1	131.7		GGGG			51	25
5501-17474	00000/0000	1-20073/0015	09/01/76	90	0931	4146N	12620W	41.7	123.0		GGGG			51	31
5502-12411	00000/0000	1-20073/0016	09/02/76	80	0942	5019N	04655W	37.9	132.0		GGGG			249	25
5502-12413	00000/0000	1-20073/0017	09/02/76	80	0942	4853N	04733W	38.5	130.5		GGGG			249	26
5502-12420	00000/0000	1-20073/0018	09/02/76	80	0942	4728N	04810W	39.2	129.1		GGGG			249	27
5502-12422	00000/0000	1-20073/0019	09/02/76	70	0942	4602N	04845W	39.8	127.7		GGGG			249	28
5502-12425	00000/0000	1-20073/0020	09/02/76	70	0942	4437N	04917W	40.4	126.2		GGGG			249	29
5502-12431	00000/0000	1-20073/0021	09/02/76	80	0942	4311N	04948W	41.0	124.8		GGGG			249	30
5502-12434	00000/0000	1-20073/0022	09/02/76	90	0942	4145N	05019W	41.5	123.3		GGGG			249	31
5502-14242	00000/0000	1-20073/0023	09/02/76	70	0943	5021N	07238W	37.8	132.0		GGGG			16	25
5502-14245	00000/0000	1-20073/0024	09/02/76	70	0943	4856N	07317W	38.5	130.6		GGGG			16	26
5502-16074	00000/0000	1-20073/0025	09/02/76	10	0944	5018N	09832W	37.8	132.0		GGGG			34	25
5502-16142	00000/0000	1-20073/0026	09/02/76	70	0944	2729N	10619W	45.2	108.0		GGGG			34	41
5502-16144	00000/0000	1-20073/0027	09/02/76	50	0944	2603N	10642W	45.4	106.5		GGFG			34	42
5502-16151	00000/0000	1-20073/0028	09/02/76	10	0944	2437N	10704W	45.6	104.9		FGGG			34	43
5502-16153	00000/0000	1-20073/0029	09/02/76	10	0944	2309N	10726W	45.7	103.3		FFFG			34	44
5502-16160	00000/0000	1-20073/0030	09/02/76	10	0944	2142N	10748W	45.8	101.7		PFFF			34	45
5502-16162	00000/0000	1-20073/0031	09/02/76	10	0944	2015N	10811W	45.8	100.1		FFF			34	46
5503-12464	00000/0000	1-20073/0038	09/03/76	80	0956	5020N	04819W	37.6	132.3		GGGG			250	25
5503-12471	00000/0000	1-20073/0039	09/03/76	70	0956	4853N	04859W	38.2	130.9		GGGG			250	26

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

05:39 0CT 22,'77

LANDSAT-1
0BSERVATI0N ID LISTING
F0R N0N-US
FR0M 07/23/76 T0 07/23/77

0BSERVATI0N ID	MICR0FILM P0SITI0N RBV	R0LL N0./ IN R0LL MSS	DATE ACQUIRED	CL0UD C0VER	0RBIT NUMBER	PRINCIPAL P0INT 0F IMAGE LAT	PRINCIPAL P0INT 0F IMAGE L0NG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA M0DE	MSS IMAGE GAIN	0RBIT PATH NUMBER	FRAME R0W NUMBER
5503-12473	00000/0000	1-20073/0040	09/03/76	80	0956	4727N	04936W	38.9	129.4		GGGG			250	27
5503-12480	00000/0000	1-20073/0041	09/03/76	90	0956	4602N	05011W	39.5	128.0		GGGG			250	28
5503-12482	00000/0000	1-20073/0042	09/03/76	90	0956	4437N	05044W	40.1	126.6		GGGG			250	29
5503-12485	00000/0000	1-20073/0043	09/03/76	90	0956	4313N	05116W	40.7	125.2		GGGG			250	30
5503-12491	00000/0000	1-20073/0044	09/03/76	90	0956	4147N	05146W	41.3	123.7		GGGG			250	31
5503-14300	00000/0000	1-20073/0045	09/03/76	70	0957	5017N	07407W	37.5	132.3		GGGG			17	25
5503-14303	00000/0000	1-20073/0046	09/03/76	90	0957	4852N	07445W	38.2	130.9		GGGG			17	26
5503-16132	00000/0000	1-20073/0032	09/03/76	10	0958	5019N	09956W	37.5	132.3		FGGG			35	25
5503-16200	00000/0000	1-20073/0033	09/03/76	30	0958	2731N	10747W	45.1	108.5		GGGG			35	41
5503-16202	00000/0000	1-20073/0034	09/03/76	40	0958	2604N	10809W	45.3	107.0		GGGG			35	42
5503-16205	00000/0000	1-20073/0035	09/03/76	50	0958	2437N	10832W	45.5	105.4		GGGG			35	43
5503-16211	00000/0000	1-20073/0036	09/03/76	20	0958	2309N	10853W	45.6	103.8		FGGG			35	44
5503-16214	00000/0000	1-20073/0037	09/03/76	30	0958	2141N	10914W	45.7	102.2		GGGG			35	45
5504-12520	00000/0000	1-20073/0047	09/04/76	90	0970	5143N	04904W	36.6	134.0		GGGG			251	24
5504-12522	00000/0000	1-20073/0048	09/04/76	90	0970	5018N	04944W	37.3	132.6		GGGG			251	25
5504-12525	00000/0000	1-20073/0049	09/04/76	80	0970	4854N	05021W	37.9	131.2		GGGG			251	26
5504-12531	00000/0000	1-20073/0050	09/04/76	70	0970	4729N	05057W	38.6	129.8		GGGG			251	27
5504-12534	00000/0000	1-20073/0051	09/04/76	80	0970	4603N	05133W	39.2	128.4		GGGG			251	28
5504-12540	00000/0000	1-20073/0052	09/04/76	90	0970	4437N	05207W	39.9	126.9		GGGG			251	29
5504-12543	00000/0000	1-20073/0053	09/04/76	90	0970	4311N	05240W	40.5	125.5		GGGG			251	30
5504-12545	00000/0000	1-20073/0054	09/04/76	70	0970	4146N	05311W	41.0	124.1		GGGG			251	31
5504-16254	00000/0000	1-20073/0055	09/04/76	60	0972	2726N	10913W	45.0	109.0		GGGG			36	41
5504-16260	00000/0000	1-20073/0056	09/04/76	70	0972	2600N	10935W	45.2	107.4		GGGG			36	42
5504-16263	00000/0000	1-20073/0057	09/04/76	60	0972	2433N	10958W	45.3	105.8		GGGG			36	43
5504-16265	00000/0000	1-20073/0058	09/04/76	30	0972	2306N	11020W	45.5	104.2		GGGG			36	44
5504-16272	00000/0000	1-20073/0059	09/04/76	30	0972	2139N	11042W	45.6	102.7		GGGG			36	45
5505-12571	00000/0000	1-20073/0067	09/05/76	90	0984	5306N	04949W	35.5	135.6		GFGF			1	23
5505-12574	00000/0000	1-20073/0068	09/05/76	90	0984	5143N	05030W	36.2	134.2		GGGG			1	24
5505-12580	00000/0000	1-20073/0069	09/05/76	90	0984	5019N	05110W	37.0	132.9		GFFF			1	25
5505-12583	00000/0000	1-20073/0070	09/05/76	90	0984	4854N	05146W	37.7	131.5		GGGG			1	26
5505-12585	00000/0000	1-20073/0071	09/05/76	90	0984	4729N	05221W	38.3	130.1		GGGG			1	27
5505-12592	00000/0000	1-20073/0072	09/05/76	90	0984	4605N	05255W	39.0	128.7		GGGG			1	28
5505-12594	00000/0000	1-20073/0073	09/05/76	80	0984	4439N	05329W	39.6	127.3		GGGF			1	29
5505-13001	00000/0000	1-20073/0074	09/05/76	50	0984	4313N	05404W	40.2	125.9		GFGF			1	30
5505-13003	00000/0000	1-20073/0075	09/05/76	40	0984	4146N	05436W	40.8	124.5		GFGF			1	31
5505-16305	00000/0000	1-20073/0060	09/05/76	70	0986	2850N	11015W	44.6	111.0		FFGG			37	40

KEYS: CL0UD C0VER % ..... 0 T0 100 = % CL0UD C0VER,
IMAGE QUALITY ..... BLANKS=BAND N0T AVAILABLE, G=G00D, P=P00R, F=FAIR.
MSS DATA M0DE..... (BLANK)=C0MPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=L0W GAIN, H=HIGH GAIN

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

05:39 OCT 22,'77 PAGE 0011

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5505-16311	00000/0000	1-20073/0061	09/05/76	60	0986	2723N	11038W	44.8	109.5		GFFG			37	41
5505-16314	00000/0000	1-20073/0062	09/05/76	20	0986	2558N	11101W	45.0	107.9		FFGG			37	42
5505-16320	00000/0000	1-20073/0063	09/05/76	20	0986	2433N	11124W	45.2	106.3		FGGG			37	43
5505-16323	00000/0000	1-20073/0064	09/05/76	30	0986	2307N	11146W	45.4	104.8		GFGG			37	44
5505-16325	00000/0000	1-20073/0065	09/05/76	30	0986	2140N	11208W	45.5	103.2		FFGG			37	45
5505-16332	00000/0000	1-20073/0066	09/05/76	20	0986	2013N	11229W	45.6	101.6		FFGG			37	46
5506-13032	00000/0000	1-20073/0076	09/06/76	90	0998	5144N	05156W	35.9	134.5		GGGG			2	24
5506-13034	00000/0000	1-20073/0077	09/06/76	100	0998	5019N	05235W	36.7	133.1		GGGG			2	25
5506-13041	00000/0000	1-20073/0078	09/06/76	100	0998	4854N	05313W	37.4	131.8		GGGG			2	26
5506-13043	00000/0000	1-20073/0079	09/06/76	90	0998	4729N	05350W	38.0	130.4		GGGG			2	27
5506-13050	00000/0000	1-20073/0080	09/06/76	50	0998	4605N	05424W	38.7	129.0		GGGG			2	28
5506-13052	00000/0000	1-20073/0081	09/06/76	30	0998	4440N	05458W	39.3	127.6		GGGG			2	29
5506-13055	00000/0000	1-20073/0082	09/06/76	30	0998	4314N	05531W	39.9	126.2		GGGG			2	30
5506-13061	00000/0000	1-20073/0083	09/06/76	40	0998	4148N	05602W	40.5	124.8		GGGG			2	31
5506-16363	00000/0000	1-20073/0084	09/06/76	70	1000	2854N	11140W	44.4	111.5		GGGG			38	40
5506-16365	00000/0000	1-20073/0085	09/06/76	50	1000	2728N	11203W	44.7	110.0		GGGG			38	41
5506-16372	00000/0000	1-20073/0086	09/06/76	20	1000	2602N	11226W	44.9	108.4		GGGG			38	42
5506-16374	00000/0000	1-20073/0087	09/06/76	30	1000	2435N	11249W	45.1	106.9		GGGG			38	43
5506-16381	00000/0000	1-20073/0088	09/06/76	30	1000	2307N	11311W	45.3	105.3		GFGG			38	44
5507-13083	00000/0000	1-20073/0089	09/07/76	100	1012	5309N	05241W	34.9	136.2		GGGG			3	23
5507-13090	00000/0000	1-20073/0090	09/07/76	100	1012	5145N	05323W	35.6	134.8		GGGG			3	24
5507-13092	00000/0000	1-20073/0091	09/07/76	100	1012	5022N	05402W	36.3	133.4		GGGG			3	25
5507-13095	00000/0000	1-20073/0092	09/07/76	100	1012	4857N	05441W	37.1	132.1		GGGG			3	26
5507-13101	00000/0000	1-20073/0093	09/07/76	100	1012	4732N	05518W	37.7	130.7		GGGG			3	27
5507-13104	00000/0000	1-20073/0094	09/07/76	100	1012	4606N	05553W	38.4	129.4		GGGG			3	28
5507-13110	00000/0000	1-20073/0095	09/07/76	90	1012	4440N	05626W	39.0	128.0		GGGG			3	29
5507-13113	00000/0000	1-20073/0096	09/07/76	80	1012	4314N	05658W	39.7	126.6		GGGG			3	30
5507-13115	00000/0000	1-20073/0097	09/07/76	80	1012	4148N	05728W	40.2	125.2		GGGG			3	31
5508-13134	00000/0000	1-20073/0189	09/08/76	90	1026	5433N	05323W	33.8	137.8		GGGG			4	22
5508-13141	00000/0000	1-20073/0190	09/08/76	100	1026	5309N	05408W	34.6	136.4		GGGG			4	23
5508-13143	00000/0000	1-20073/0191	09/08/76	90	1026	5145N	05450W	35.3	135.1		GGGG			4	24
5508-13150	00000/0000	1-20073/0192	09/08/76	50	1026	5021N	05529W	36.0	133.7		GGGG			4	25
5508-13152	00000/0000	1-20073/0193	09/08/76	60	1026	4856N	05606W	36.8	132.4		GGGG			4	26
5508-13155	00000/0000	1-20073/0194	09/08/76	70	1026	4731N	05641W	37.4	131.0		GGGG			4	27
5508-13161	00000/0000	1-20073/0195	09/08/76	60	1026	4605N	05716W	38.1	129.7		GGGG			4	28
5508-13164	00000/0000	1-20073/0196	09/08/76	70	1026	4440N	05751W	38.8	128.3		GGGG			4	29

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LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL OF IMAGE LAT	POINT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5508-13170	00000/0000	1-20073/0197	09/08/76	60	1026	4314N	05823W	39.4	127.0		GGGG			4	30
5508-13173	00000/0000	1-20073/0198	09/08/76	50	1026	4148N	05854W	40.0	125.6		GGGG			4	31
5508-14582	00000/0000	1-20073/0199	09/08/76	0	1027	5019N	08118W	36.0	133.7		GGGG			22	25
5508-16393	00000/0000	1-20073/0098	09/08/76	70	1028	5719N	10323W	32.2	140.6		GGGG			40	20
5508-16395	00000/0000	1-20073/0099	09/08/76	70	1028	5555N	10414W	33.0	139.2		GGGG			40	21
5508-16402	00000/0000	1-20073/0100	09/08/76	70	1028	5431N	10501W	33.8	137.8		GGGG			40	22
5508-16404	00000/0000	1-20073/0101	09/08/76	20	1028	5307N	10546W	34.5	136.4		GGGG			40	23
5508-16411	00000/0000	1-20073/0102	09/08/76	10	1028	5142N	10628W	35.3	135.1		GGGG			40	24
5508-16413	00000/0000	1-20073/0103	09/08/76	20	1028	5017N	10707W	36.0	133.8		GGGG			40	25
5508-16475	00000/0000	1-20073/0104	09/08/76	90	1028	2854N	11432W	44.1	112.5		GGGG			40	40
5508-16481	00000/0000	1-20073/0105	09/08/76	90	1028	2727N	11455W	44.4	111.0		GGGG			40	41
5509-13190	00000/0000	1-20073/0127	09/09/76	80	1040	5554N	05403W	32.7	139.4		FGGF			5	21
5509-13192	00000/0000	1-20073/0128	09/09/76	90	1040	5430N	05450W	33.5	138.0		GFFG			5	22
5509-13195	00000/0000	1-20073/0129	09/09/76	90	1040	5306N	05534W	34.3	136.7		GGGG			5	23
5509-13201	00000/0000	1-20073/0130	09/09/76	90	1040	5142N	05616W	35.0	135.3		FGGG			5	24
5509-13204	00000/0000	1-20073/0131	09/09/76	90	1040	5017N	05655W	35.8	134.0		GGGG			5	25
5509-13210	00000/0000	1-20073/0132	09/09/76	90	1040	4852N	05733W	36.5	132.7		FGGG			5	26
5509-13213	00000/0000	1-20073/0133	09/09/76	70	1040	4728N	05808W	37.2	131.3		GGGG			5	27
5509-13215	00000/0000	1-20073/0134	09/09/76	70	1040	4603N	05842W	37.9	130.0		GGFG			5	28
5509-13222	00000/0000	1-20073/0135	09/09/76	60	1040	4437N	05917W	38.5	128.6		FGGG			5	29
5509-13224	00000/0000	1-20073/0136	09/09/76	50	1040	4311N	05951W	39.1	127.3		GFGG			5	30
5509-16451	00000/0000	1-20073/0106	09/09/76	10	1042	5717N	10452W	31.9	140.7		GGGF			41	20
5509-16453	00000/0000	1-20073/0107	09/09/76	10	1042	5553N	10542W	32.7	139.4		GGGG			41	21
5509-16460	00000/0000	1-20073/0108	09/09/76	20	1042	5429N	10628W	33.5	138.0		GGFG			41	22
5509-16462	00000/0000	1-20073/0109	09/09/76	10	1042	5304N	10713W	34.2	136.7		GGGG			41	23
5509-16465	00000/0000	1-20073/0110	09/09/76	0	1042	5140N	10755W	35.0	135.3		GGGG			41	24
5509-16471	00000/0000	1-20073/0111	09/09/76	0	1042	5015N	10835W	35.7	134.0		GGGG			41	25
5509-16530	00000/0000	1-20073/0112	09/09/76	90	1042	3020N	11537W	43.6	114.4		GGGG			41	39
5509-16533	00000/0000	1-20073/0113	09/09/76	100	1042	2854N	11601W	43.9	112.9		GGGG			41	40
5510-13244	00000/0000	1-20073/0139	09/10/76	50	1054	5557N	05526W	32.4	139.6		G			6	21
5510-13250	00000/0000	1-20073/0140	09/10/76	100	1054	5433N	05613W	33.2	138.3		GGGG			6	22
5510-13253	00000/0000	1-20073/0141	09/10/76	100	1054	5309N	05658W	33.9	136.9		GGGG			6	23
5510-13255	00000/0000	1-20073/0142	09/10/76	100	1054	5145N	05741W	34.7	135.6		FGGG			6	24
5510-13262	00000/0000	1-20073/0143	09/10/76	90	1054	5018N	05821W	35.4	134.3		GGFG			6	25
5510-13264	00000/0000	1-20073/0144	09/10/76	70	1054	4853N	05859W	36.2	133.0		GGGG			6	26
5510-13271	00000/0000	1-20073/0145	09/10/76	70	1054	4727N	05934W	36.9	131.6		GGGG			6	27

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05:39 OCT 22,'77

LANDSAT-1
OBSERVATION ID LISTING
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FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5510-13273	00000/0000	1-20073/0146	09/10/76	50	1054	4602N	06008W	37.6	130.3		GGGG			6	28
5510-13280	00000/0000	1-20073/0147	09/10/76	50	1054	4438N	06041W	38.2	129.0		GGGG			6	29
5510-13282	00000/0000	1-20073/0148	09/10/76	50	1054	4313N	06114W	38.9	127.6		GGGG			6	30
5510-13285	00000/0000	1-20073/0149	09/10/76	60	1054	4147N	06145W	39.5	126.3		GGGG			6	31
5510-16525	00000/0000	1-20073/0137	09/10/76	0	1056	5014N	11001W	35.4	134.3		GGFG			42	25
5510-16584	00000/0000	1-20073/0138	09/10/76	80	1056	3019N	11701W	43.4	114.9		GGGG			42	39
5511-13295	00000/0000	1-20073/0114	09/11/76	90	1068	5717N	05605W	31.2	141.2		GGGF			7	20
5511-13302	00000/0000	1-20073/0115	09/11/76	80	1068	5554N	05655W	32.1	139.8		GGGG			7	21
5511-13304	00000/0000	1-20073/0116	09/11/76	20	1068	5430N	05743W	32.9	138.5		PGGG			7	22
5511-13311	00000/0000	1-20073/0117	09/11/76	10	1068	5305N	05827W	33.6	137.1		GFGG			7	23
5511-13313	00000/0000	1-20073/0118	09/11/76	0	1068	5140N	05910W	34.4	135.8		FGGG			7	24
5511-13320	00000/0000	1-20073/0119	09/11/76	10	1068	5015N	05950W	35.2	134.5		GGGG			7	25
5511-13322	00000/0000	1-20073/0120	09/11/76	10	1068	4851N	06027W	35.9	133.2		GGG			7	26
5511-13325	00000/0000	1-20073/0121	09/11/76	10	1068	4726N	06103W	36.6	131.9		GGGG			7	27
5511-13331	00000/0000	1-20073/0122	09/11/76	10	1068	4601N	06136W	37.3	130.6		GGGG			7	28
5511-13334	00000/0000	1-20073/0123	09/11/76	10	1068	4436N	06209W	38.0	129.3		GGGG			7	29
5511-13340	00000/0000	1-20073/0124	09/11/76	10	1068	4310N	06240W	38.6	128.0		PGGG			7	30
5511-13343	00000/0000	1-20073/0125	09/11/76	10	1068	4144N	06312W	39.2	126.6		GGGG			7	31
5511-15151	00000/0000	1-20073/0126	09/11/76	0	1069	5021N	08540W	35.1	134.6		GGG			25	25
5511-16583	00000/0000	1-20073/0200	09/11/76	90	1070	5018N	11126W	35.1	134.6		GGGG			43	25
5512-13353	00000/0000	1-20073/0153	09/12/76	50	1082	5718N	05732W	30.9	141.4		FGGG			8	20
5512-13360	00000/0000	1-20073/0154	09/12/76	70	1082	5554N	05822W	31.7	140.1		GGFG			8	21
5512-13362	00000/0000	1-20073/0155	09/12/76	70	1082	5429N	05909W	32.5	138.7		GGGG			8	22
5512-13365	00000/0000	1-20073/0156	09/12/76	80	1082	5305N	05953W	33.3	137.4		GGGG			8	23
5512-13371	00000/0000	1-20073/0157	09/12/76	90	1082	5141N	06035W	34.1	136.1		GGGG			8	24
5512-13374	00000/0000	1-20073/0158	09/12/76	90	1082	5017N	06116W	34.8	134.8		GGGG			8	25
5512-13380	00000/0000	1-20073/0159	09/12/76	90	1082	4852N	06153W	35.6	133.5		GGGG			8	26
5512-13383	00000/0000	1-20073/0160	09/12/76	80	1082	4726N	06228W	36.3	132.2		GGGG			8	27
5512-13385	00000/0000	1-20073/0161	09/12/76	60	1082	4602N	06301W	37.0	130.9		GGGG			8	28
5512-13392	00000/0000	1-20073/0162	09/12/76	60	1082	4437N	06333W	37.7	129.6		GGGG			8	29
5512-13394	00000/0000	1-20073/0163	09/12/76	50	1082	4312N	06405W	38.3	128.3		GGGG			8	30
5512-13401	00000/0000	1-20073/0164	09/12/76	80	1082	4146N	06435W	39.0	127.0		GGGG			8	31
5512-15203	00000/0000	1-20073/0165	09/12/76	90	1083	5142N	08626W	34.1	136.1		GGGG			26	24
5512-15205	00000/0000	1-20073/0166	09/12/76	60	1083	5018N	08707W	34.8	134.8		GGGG			26	25
5512-15285	00000/0000	1-20073/0150	09/12/76	30	1083	2306N	09557W	44.6	108.3		GFGG			26	44
5512-15291	00000/0000	1-20073/0151	09/12/76	20	1083	2139N	09620W	44.8	106.8		GGGG			26	45

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LANDSAT-1
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FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5512-15294	00000/0000	1-20073/0152	09/12/76	30	1083	2012N	09642W	44.9	105.3		GGFG			26	46
5512-17032	00000/0000	1-20073/0180	09/12/76	100	1084	5304N	11129W	33.3	137.4		GGGG			44	23
5512-17034	00000/0000	1-20073/0181	09/12/76	100	1084	5139N	11213W	34.1	136.1		GGGG			44	24
5512-17041	00000/0000	1-20073/0182	09/12/76	80	1084	5014N	11253W	34.8	134.8		GGGG			44	25
5513-13414	00000/0000	1-20073/0167	09/13/76	100	1096	5554N	05947W	31.4	140.3		GGGG			9	21
5513-13420	00000/0000	1-20073/0168	09/13/76	100	1096	5430N	06034W	32.2	139.0		FGGG			9	22
5513-13423	00000/0000	1-20073/0169	09/13/76	90	1096	5306N	06118W	33.0	137.7		GGGG			9	23
5513-13425	00000/0000	1-20073/0170	09/13/76	90	1096	5142N	06200W	33.8	136.4		GGGG			9	24
5513-13432	00000/0000	1-20073/0171	09/13/76	40	1096	5017N	06240W	34.5	135.1		GGGG			9	25
5513-13434	00000/0000	1-20073/0172	09/13/76	50	1096	4853N	06317W	35.3	133.9		GGGG			9	26
5513-13450	00000/0000	1-20073/0173	09/13/76	10	1096	4437N	06502W	37.4	130.0		GGFG			9	29
5513-13452	00000/0000	1-20073/0174	09/13/76	10	1096	4312N	06534W	38.0	128.7		GGGG			9	30
5513-13455	00000/0000	1-20073/0175	09/13/76	10	1096	4147N	06604W	38.7	127.4		GGGG			9	31
5513-15252	00000/0000	1-20073/0176	09/13/76	90	1097	5432N	08625W	32.2	139.0		GGGG			27	22
5513-15254	00000/0000	1-20073/0177	09/13/76	100	1097	5308N	08710W	33.0	137.7		GGGG			27	23
5513-15261	00000/0000	1-20073/0178	09/13/76	100	1097	5144N	08753W	33.7	136.4		GGGG			27	24
5513-15263	00000/0000	1-20073/0179	09/13/76	100	1097	5019N	08832W	34.5	135.1		GGGG			27	25
5513-15343	00000/0000	1-20073/0183	09/13/76	30	1097	2307N	09723W	44.4	108.9		GGGG			27	44
5513-15345	00000/0000	1-20073/0184	09/13/76	40	1097	2140N	09745W	44.6	107.3		GGGG			27	45
5513-15352	00000/0000	1-20073/0185	09/13/76	30	1097	2013N	09808W	44.8	105.8		FGGG			27	46
5513-17092	00000/0000	1-20073/0186	09/13/76	30	1098	5140N	11338W	33.7	136.4		GGG			45	24
5513-17095	00000/0000	1-20073/0187	09/13/76	20	1098	5015N	11419W	34.5	135.1		GGG			45	25
5513-17151	00000/0000	1-20073/0188	09/13/76	90	1098	3144N	12054W	42.4	117.8		GGGG			45	38
5514-13513	00000/0000	1-20073/0201	09/14/76	10	1110	4144N	06732W	38.4	127.7		FGGG			10	31
5514-13515	00000/0000	1-20073/0202	09/14/76	20	1110	4018N	06801W	39.1	126.4		GGGG			10	32
5514-13522	00000/0000	1-20073/0203	09/14/76	20	1110	3853N	06830W	39.6	125.1		GGGG			10	33
5514-15394	00000/0000	1-20073/0210	09/14/76	30	1111	2435N	09827W	44.0	110.9		FGGG			28	43
5514-15401	00000/0000	1-20073/0211	09/14/76	40	1111	2308N	09850W	44.3	109.4		FGGG			28	44
5514-15403	00000/0000	1-20073/0212	09/14/76	60	1111	2141N	09912W	44.5	107.9		GGGF			28	45
5514-15410	00000/0000	1-20073/0213	09/14/76	40	1111	2015N	09935W	44.7	106.4		GGGG			28	46
5514-15412	00000/0000	1-20073/0214	09/14/76	40	1111	1849N	09956W	44.9	104.8		GGGG			28	47
5514-15415	00000/0000	1-20073/0215	09/14/76	50	1111	1723N	10017W	45.0	103.3		GGGG			28	48
5514-17153	00000/0000	1-20073/0216	09/14/76	0	1112	5016N	11544W	34.2	135.4		GGGG			46	25
5514-17205	00000/0000	1-20073/0217	09/14/76	20	1112	3144N	12221W	42.2	118.2		GGGG			46	38
5515-15373	00000/0000	1-20073/0218	09/15/76	70	1125	5138N	09044W	33.1	136.9		GGGG			29	24
5515-15375	00000/0000	1-20073/0219	09/15/76	80	1125	5014N	09123W	33.9	135.7		GGGG			29	25

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LANDSAT-1
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05:39 OCT 22,'77 PAGE 0015

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5515-15452	00000/0000	1-20073/0204	09/15/76	70	1125	2435N	09954W	43.9	111.4		GGGG			29	43
5515-15455	00000/0000	1-20073/0205	09/15/76	70	1125	2308N	10017W	44.2	109.9		GGGG			29	44
5515-15461	00000/0000	1-20073/0206	09/15/76	80	1125	2142N	10040W	44.4	108.4		GGGG			29	45
5515-15464	00000/0000	1-20073/0207	09/15/76	50	1125	2015N	10102W	44.6	106.9		GGGG			29	46
5515-15470	00000/0000	1-20073/0208	09/15/76	90	1125	1848N	10123W	44.8	105.3		GGGG			29	47
5515-15473	00000/0000	1-20073/0209	09/15/76	70	1125	1721N	10144W	44.9	103.8		GGGG			29	48
5515-17261	00000/0000	1-20073/0220	09/15/76	40	1126	3314N	12322W	41.5	120.1		GGGG			47	37
5516-15510	00000/0000	1-20073/0298	09/16/76	70	1139	2435N	10118W	43.7	111.9		GGGG			30	43
5516-15513	00000/0000	1-20073/0299	09/16/76	70	1139	2308N	10141W	44.0	110.4		GGGG			30	44
5516-15515	00000/0000	1-20073/0300	09/16/76	80	1139	2142N	10204W	44.3	108.9		GGGG			30	45
5516-15522	00000/0000	1-20073/0301	09/16/76	80	1139	2015N	10226W	44.5	107.4		GGGG			30	46
5516-15524	00000/0000	1-20073/0302	09/16/76	80	1139	1848N	10248W	44.7	105.9		GGFG			30	47
5516-17262	00000/0000	1-20073/0221	09/16/76	10	1140	5140N	11756W	32.8	137.2		GGGG			48	24
5516-17265	00000/0000	1-20073/0222	09/16/76	10	1140	5016N	11835W	33.6	136.0		GGGG			48	25
5518-14113	00000/0000	1-20073/0223	09/18/76	20	1166	5018N	06953W	33.0	136.5		FGGG			14	25
5518-14120	00000/0000	1-20073/0224	09/18/76	30	1166	4853N	07031W	33.7	135.3		FGGG			14	26
5518-14184	00000/0000	1-20073/0225	09/18/76	40	1166	2559N	07802W	43.1	114.3		FGGG			14	42
5518-14190	00000/0000	1-20073/0226	09/18/76	80	1166	2434N	07825W	43.5	112.9		FGGG			14	43
5518-15542	00000/0000	1-20073/0232	09/18/76	40	1167	5140N	09501W	32.2	137.7		GGGG			32	24
5518-15545	00000/0000	1-20073/0233	09/18/76	30	1167	5015N	09541W	32.9	136.5		GGGG			32	25
5518-16015	00000/0000	1-20073/0234	09/18/76	90	1167	2600N	10348W	43.1	114.3		GGGG			32	42
5518-16022	00000/0000	1-20073/0235	09/18/76	70	1167	2433N	10410W	43.4	112.9		GGGG			32	43
5518-16024	00000/0000	1-20073/0236	09/18/76	90	1167	2307N	10433W	43.8	111.4		GGGG			32	44
5518-16031	00000/0000	1-20073/0237	09/18/76	90	1167	2140N	10456W	44.0	109.9		GGGG			32	45
5518-16033	00000/0000	1-20073/0238	09/18/76	80	1167	2013N	10518W	44.3	108.5		GGGG			32	46
5518-16040	00000/0000	1-20073/0239	09/18/76	60	1167	1847N	10540W	44.5	107.0		GGGG			32	47
5519-16073	00000/0000	1-20073/0227	09/19/76	40	1181	2602N	10515W	42.9	114.8		GGGG			33	42
5519-16080	00000/0000	1-20073/0228	09/19/76	90	1181	2435N	10537W	43.3	113.4		GGGG			33	43
5519-16082	00000/0000	1-20073/0229	09/19/76	90	1181	2308N	10600W	43.6	111.9		GGGG			33	44
5519-16085	00000/0000	1-20073/0230	09/19/76	80	1181	2141N	10622W	43.9	110.5		GGGG			33	45
5519-16091	00000/0000	1-20073/0231	09/19/76	90	1181	2014N	10644W	44.2	109.0		GGFG			33	46
5520-12394	00000/0000	1-20073/0250	09/20/76	50	1193	5015N	04654W	32.4	137.0		G			249	25
5520-12400	00000/0000	1-20073/0251	09/20/76	50	1193	4850N	04731W	33.1	135.8		GFGF			249	26
5520-12403	00000/0000	1-20073/0252	09/20/76	80	1193	4726N	04806W	33.9	134.6		GGGF			249	27
5520-12405	00000/0000	1-20073/0253	09/20/76	90	1193	4601N	04841W	34.7	133.4		GGGG			249	28
5520-12412	00000/0000	1-20073/0254	09/20/76	90	1193	4436N	04914W	35.4	132.2		FGGG			249	29

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
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LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

05:39 OCT 22,'77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER.
5520-12414	00000/0000	1-20073/0255	09/20/76	60	1193	4310N	04945W	36.1	131.0		GGGG			249	30
5520-12421	00000/0000	1-20073/0256	09/20/76	30	1193	4145N	05016W	36.8	129.8		GGGG			249	31
5520-16125	00000/0000	1-20073/0257	09/20/76	50	1195	2729N	10619W	42.3	116.8		GGGG			34	41
5520-16131	00000/0000	1-20073/0258	09/20/76	70	1195	2603N	10642W	42.7	115.3		GGGG			34	42
5520-16134	00000/0000	1-20073/0259	09/20/76	30	1195	2437N	10705W	43.1	113.9		GGGG			34	43
5520-16140	00000/0000	1-20073/0260	09/20/76	40	1195	2308N	10727W	43.5	112.5		GGGG			34	44
5520-16143	00000/0000	1-20073/0261	09/20/76	90	1195	2140N	10749W	43.8	111.0		GGGG			34	45
5520-16145	00000/0000	1-20073/0262	09/20/76	100	1195	2013N	10810W	44.0	109.5		GGGG			34	46
5520-17492	00000/0000	1-20073/0240	09/20/76	0	1196	5016N	12422W	32.3	137.1		GGGG			52	25
5520-17510	00000/0000	1-20073/0241	09/20/76	80	1196	4435N	12643W	35.3	132.3		GGG			52	29
5521-12445	00000/0000	1-20073/0242	09/21/76	100	1207	5140N	04739W	31.2	138.5		GGGG			250	24
5521-12452	00000/0000	1-20073/0243	09/21/76	90	1207	5015N	04820W	32.0	137.3		GGFG			250	25
5521-12454	00000/0000	1-20073/0244	09/21/76	100	1207	4851N	04858W	32.8	136.1		GGGG			250	26
5521-12461	00000/0000	1-20073/0245	09/21/76	90	1207	4726N	04935W	33.6	134.9		GGGG			250	27
5521-12463	00000/0000	1-20073/0246	09/21/76	80	1207	4600N	05009W	34.4	133.8		GGGG			250	28
5521-12470	00000/0000	1-20073/0247	09/21/76	30	1207	4435N	05042W	35.1	132.6		GGGF			250	29
5521-12472	00000/0000	1-20073/0248	09/21/76	50	1207	4310N	05114W	35.8	131.4		GGGG			250	30
5521-12475	00000/0000	1-20073/0249	09/21/76	30	1207	4144N	05145W	36.5	130.2		GGFG			250	31
5521-16183	00000/0000	1-20073/0303	09/21/76	80	1209	2729N	10743W	42.2	117.2		GGGG			35	41
5521-16185	00000/0000	1-20073/0304	09/21/76	50	1209	2602N	10806W	42.6	115.8		GGGG			35	42
5521-16192	00000/0000	1-20073/0305	09/21/76	90	1209	2436N	10829W	43.0	114.4		GGGG			35	43
5521-16194	00000/0000	1-20073/0306	09/21/76	90	1209	2309N	10851W	43.3	113.0		GGGF			35	44
5521-16201	00000/0000	1-20073/0307	09/21/76	70	1209	2142N	10913W	43.6	111.5		GGGG			35	45
5521-17550	00000/0000	1-20073/0263	09/21/76	80	1210	5016N	12546W	32.0	137.4		GGGG			53	25
5521-17555	00000/0000	1-20073/0264	09/21/76	90	1210	4726N	12700W	33.5	135.0		GGGG			53	27
5522-12503	00000/0000	1-20073/0285	09/22/76	100	1221	5142N	04903W	30.9	138.8		GGGG			251	24
5522-12505	00000/0000	1-20073/0286	09/22/76	100	1221	5017N	04942W	31.7	137.6		FGGG			251	25
5522-12512	00000/0000	1-20073/0287	09/22/76	90	1221	4852N	05021W	32.5	136.4		FFGG			251	26
5522-12514	00000/0000	1-20073/0288	09/22/76	90	1221	4727N	05059W	33.3	135.2		GGGG			251	27
5522-12521	00000/0000	1-20073/0289	09/22/76	90	1221	4602N	05134W	34.0	134.1		FFFF			251	28
5522-12523	00000/0000	1-20073/0290	09/22/76	90	1221	4437N	05206W	34.8	132.9		GGGG			251	29
5522-12530	00000/0000	1-20073/0291	09/22/76	90	1221	4311N	05238W	35.5	131.7		FGGG			251	30
5522-12532	00000/0000	1-20073/0292	09/22/76	70	1221	4145N	05309W	36.2	130.5		GGGG			251	31
5522-16241	00000/0000	1-20073/0293	09/22/76	90	1223	2727N	10908W	42.0	117.7		GFGG			36	41
5522-16243	00000/0000	1-20073/0294	09/22/76	90	1223	2601N	10931W	42.4	116.3		GGGG			36	42
5522-16250	00000/0000	1-20073/0295	09/22/76	60	1223	2433N	10955W	42.8	114.9		GGGG			36	43

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LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

05:39 OCT 22,'77 PAGE 0017

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5522-16252	00000/0000	1-20073/0296	09/22/76	40	1223	2306N	11018W	43.2	113.4		GGGG			36	44
5522-16255	00000/0000	1-20073/0297	09/22/76	80	1223	2139N	11040W	43.5	112.0		GGGG			36	45
5523-12561	00000/0000	1-20073/0325	09/23/76	90	1235	5137N	05033W	30.6	139.0		GGGG			1	24
5523-12563	00000/0000	1-20073/0326	09/23/76	90	1235	5012N	05113W	31.4	137.8		GGGG			1	25
5523-12570	00000/0000	1-20073/0327	09/23/76	90	1235	4847N	05152W	32.2	136.7		GGGG			1	26
5523-12572	00000/0000	1-20073/0328	09/23/76	90	1235	4723N	05229W	33.0	135.5		GGGG			1	27
5523-12575	00000/0000	1-20073/0329	09/23/76	90	1235	4559N	05304W	33.8	134.3		GGGG			1	28
5523-12581	00000/0000	1-20073/0330	09/23/76	90	1235	4435N	05337W	34.5	133.2		GGGG			1	29
5523-12584	00000/0000	1-20073/0331	09/23/76	80	1235	4310N	05408W	35.3	132.0		GGGG			1	30
5523-12590	00000/0000	1-20073/0332	09/23/76	80	1235	4143N	05437W	36.0	130.8		GGGG			1	31
5523-16292	00000/0000	1-20073/0308	09/23/76	90	1237	2854N	11011W	41.3	119.5		GGGF			37	40
5523-16295	00000/0000	1-20073/0309	09/23/76	90	1237	2728N	11034W	41.8	118.1		GGGG			37	41
5523-16301	00000/0000	1-20073/0310	09/23/76	60	1237	2600N	11058W	42.2	116.8		GGGG			37	42
5523-16304	00000/0000	1-20073/0311	09/23/76	50	1237	2433N	11121W	42.6	115.4		GGGG			37	43
5523-16310	00000/0000	1-20073/0312	09/23/76	60	1237	2306N	11143W	43.0	113.9		GGGG			37	44
5523-16313	00000/0000	1-20073/0313	09/23/76	20	1237	2139N	11205W	43.4	112.5		GGG			37	45
5523-16315	00000/0000	1-20073/0314	09/23/76	20	1237	2013N	11226W	43.7	111.1		FGGG			37	46
5524-13010	00000/0000	1-20073/0315	09/24/76	30	1249	5426N	05032W	28.6	141.6		FFGG			2	22
5524-13012	00000/0000	1-20073/0316	09/24/76	30	1249	5302N	05117W	29.4	140.4		GGGG			2	23
5524-13015	00000/0000	1-20073/0317	09/24/76	10	1249	5138N	05159W	30.3	139.2		FGGG			2	24
5524-13021	00000/0000	1-20073/0318	09/24/76	10	1249	5014N	05239W	31.1	138.1		FGGG			2	25
5524-13024	00000/0000	1-20073/0319	09/24/76	10	1249	4849N	05317W	31.9	136.9		FGGG			2	26
5524-13030	00000/0000	1-20073/0320	09/24/76	10	1249	4724N	05354W	32.7	135.8		FGGG			2	27
5524-13033	00000/0000	1-20073/0321	09/24/76	30	1249	4600N	05428W	33.5	134.6		FGGG			2	28
5524-13035	00000/0000	1-20073/0322	09/24/76	70	1249	4436N	05501W	34.2	133.5		GGGG			2	29
5524-13042	00000/0000	1-20073/0323	09/24/76	80	1249	4311N	05533W	35.0	132.3		GGGF			2	30
5524-13044	00000/0000	1-20073/0324	09/24/76	90	1249	4144N	05603W	35.7	131.2		GGGG			2	31
5524-16350	00000/0000	1-20074/0011	09/24/76	50	1251	2855N	11138W	41.1	120.0		GGGG			38	40
5524-16352	00000/0000	1-20074/0012	09/24/76	10	1251	2729N	11202W	41.6	118.6		GGGG			38	41
5524-16355	00000/0000	1-20074/0013	09/24/76	10	1251	2601N	11225W	42.0	117.2		GGGG			38	42
5524-16361	00000/0000	1-20074/0014	09/24/76	40	1251	2435N	11247W	42.5	115.9		GGGF			38	43
5524-16364	00000/0000	1-20074/0015	09/24/76	40	1251	2307N	11309W	42.9	114.5		GGGG			38	44
5525-13070	00000/0000	1-20073/0265	09/25/76	10	1263	5303N	05242W	29.1	140.6		GFPF			3	23
5525-13073	00000/0000	1-20073/0266	09/25/76	30	1263	5139N	05325W	29.9	139.5		FG G			3	24
5525-13075	00000/0000	1-20073/0267	09/25/76	80	1263	5015N	05404W	30.7	138.4		GGGG			3	25
5525-13082	00000/0000	1-20073/0268	09/25/76	70	1263	4851N	05443W	31.6	137.2		GFGG			3	26

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OBSERVATION ID	MICROFILM POSITION IN ROLL RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5525-13084	00000/0000	1-20073/0269	09/25/76	60	1263	4727N	05520W	32.4	136.1		GGFG			3	27
5525-13091	00000/0000	1-20073/0270	09/25/76	80	1263	4602N	05554W	33.1	135.0		GGFF			3	28
5525-13093	00000/0000	1-20073/0271	09/25/76	80	1263	4436N	05625W	33.9	133.8		GGGG			3	29
5525-13100	00000/0000	1-20073/0272	09/25/76	90	1263	4310N	05656W	34.7	132.7		FGGG			3	30
5525-13102	00000/0000	1-20073/0273	09/25/76	90	1263	4144N	05726W	35.4	131.5		GGGG			3	31
5525-16324	00000/0000	1-20074/0025	09/25/76	90	1265	5554N	10248W	27.3	143.0		GGGG			39	21
5525-16331	00000/0000	1-20074/0026	09/25/76	80	1265	5430N	10336W	28.1	141.8		GGGG			39	22
5525-16333	00000/0000	1-20074/0027	09/25/76	60	1265	5305N	10419W	29.0	140.7		GGGG			39	23
5525-16340	00000/0000	1-20074/0028	09/25/76	20	1265	5141N	10501W	29.9	139.5		GGGG			39	24
5525-16342	00000/0000	1-20074/0029	09/25/76	40	1265	5017N	10541W	30.7	138.4		GGGG			39	25
5525-16404	00000/0000	1-20074/0030	09/25/76	30	1265	2852N	11306W	40.9	120.4		GGGG			39	40
5525-16410	00000/0000	1-20074/0031	09/25/76	50	1265	2727N	11328W	41.4	119.1		GFGG			39	41
5525-16413	00000/0000	1-20074/0032	09/25/76	60	1265	2602N	11350W	41.9	117.7		GGGG			39	42
5526-13115	00000/0000	1-20073/0274	09/26/76	70	1277	5553N	05233W	27.0	143.2		GGGG			4	21
5526-13122	00000/0000	1-20073/0275	09/26/76	80	1277	5429N	05320W	27.9	142.0		GGGG			4	22
5526-13124	00000/0000	1-20073/0276	09/26/76	20	1277	5305N	05405W	28.7	140.9		GGGG			4	23
5526-13131	00000/0000	1-20073/0277	09/26/76	40	1277	5141N	05450W	29.6	139.8		GGGG			4	24
5526-13133	00000/0000	1-20073/0278	09/26/76	40	1277	5016N	05531W	30.4	138.6		GGGG			4	25
5526-13140	00000/0000	1-20073/0279	09/26/76	20	1277	4851N	05609W	31.2	137.5		GGGG			4	26
5526-13142	00000/0000	1-20073/0280	09/26/76	10	1277	4727N	05644W	32.0	136.4		GGGG			4	27
5526-13145	00000/0000	1-20073/0281	09/26/76	10	1277	4603N	05718W	32.8	135.3		GGF			4	28
5526-13151	00000/0000	1-20073/0282	09/26/76	20	1277	4437N	05752W	33.6	134.1		FGGG			4	29
5526-13154	00000/0000	1-20073/0283	09/26/76	50	1277	4310N	05824W	34.4	133.0		GGGG			4	30
5526-13160	00000/0000	1-20073/0284	09/26/76	80	1277	4144N	05855W	35.1	131.9		GGGG			4	31
5526-16380	00000/0000	1-20074/0016	09/26/76	10	1279	5717N	10324W	26.1	144.4		GGGG			40	20
5526-16382	00000/0000	1-20074/0017	09/26/76	10	1279	5554N	10414W	27.0	143.2		GGGG			40	21
5526-16385	00000/0000	1-20074/0018	09/26/76	30	1279	5429N	10501W	27.8	142.0		GGGG			40	22
5526-16391	00000/0000	1-20074/0019	09/26/76	30	1279	5304N	10544W	28.7	140.9		GGGG			40	23
5526-16394	00000/0000	1-20074/0020	09/26/76	10	1279	5138N	10627W	29.5	139.8		GGGG			40	24
5526-16400	00000/0000	1-20074/0021	09/26/76	30	1279	5013N	10708W	30.4	138.6		GGGG			40	25
5526-16455	00000/0000	1-20074/0022	09/26/76	30	1279	3016N	11407W	40.2	122.1		GGGF			40	39
5526-16462	00000/0000	1-20074/0023	09/26/76	30	1279	2849N	11431W	40.7	120.8		FGGG			40	40
5526-16464	00000/0000	1-20074/0024	09/26/76	40	1279	2723N	11455W	41.2	119.5		GGGG			40	41
5527-13173	00000/0000	1-20074/0001	09/27/76	100	1291	5554N	05358W	26.6	143.4		GGFG			5	21
5527-13180	00000/0000	1-20074/0002	09/27/76	50	1291	5430N	05447W	27.5	142.3		GGFG			5	22
5527-13182	00000/0000	1-20074/0003	09/27/76	60	1291	5305N	05533W	28.4	141.1		GGFG			5	23

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G=GOOD, P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

05:39 OCT 22,'77

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5527-13185	00000/0000	1-20074/0004	09/27/76	90	1291	5141N	05616W	29.2	140.0		GGGG			5	24
5527-13194	00000/0000	1-20074/0005	09/27/76	100	1291	4851N	05734W	30.9	137.8		GGGG			5	26
5527-13200	00000/0000	1-20074/0006	09/27/76	90	1291	4725N	05810W	31.7	136.7		GGGG			5	27
5527-13203	00000/0000	1-20074/0007	09/27/76	90	1291	4600N	05845W	32.5	135.6		GGGG			5	28
5527-13205	00000/0000	1-20074/0008	09/27/76	100	1291	4435N	05918W	33.3	134.4		GGGG			5	29
5527-13212	00000/0000	1-20074/0009	09/27/76	100	1291	4310N	05949W	34.1	133.3		GGGG			5	30
5527-13214	00000/0000	1-20074/0010	09/27/76	100	1291	4144N	06019W	34.8	132.2		GGGG			5	31
5527-16434	00000/0000	1-20074/0033	09/27/76	40	1293	5715N	10450W	25.7	144.6		GGGG			41	20
5527-16440	00000/0000	1-20074/0034	09/27/76	30	1293	5551N	10540W	26.6	143.4		GGGG			41	21
5527-16443	00000/0000	1-20074/0035	09/27/76	30	1293	5427N	10628W	27.5	142.3		FGFG			41	22
5527-16445	00000/0000	1-20074/0036	09/27/76	10	1293	5303N	10713W	28.4	141.1		GGGG			41	23
5527-16452	00000/0000	1-20074/0037	09/27/76	10	1293	5139N	10755W	29.2	140.0		GGGG			41	24
5527-16454	00000/0000	1-20074/0038	09/27/76	0	1293	5014N	10835W	30.0	138.9		GGGG			41	25
5527-16513	00000/0000	1-20074/0039	09/27/76	30	1293	3017N	11532W	40.0	122.6		GGGG			41	39
5527-16520	00000/0000	1-20074/0040	09/27/76	80	1293	2851N	11556W	40.5	121.3		GGGG			41	40
5528-13231	00000/0000	1-20074/0041	09/28/76	90	1305	5550N	05530W	26.3	143.6		GGGG			6	21
5528-13234	00000/0000	1-20074/0042	09/28/76	100	1305	5426N	05617W	27.2	142.4		GGGG			6	22
5528-13240	00000/0000	1-20074/0043	09/28/76	100	1305	5303N	05700W	28.1	141.3		GGGG			6	23
5528-13243	00000/0000	1-20074/0044	09/28/76	100	1305	5139N	05742W	28.9	140.2		GGGG			6	24
5528-13245	00000/0000	1-20074/0045	09/28/76	100	1305	5015N	05822W	29.8	139.1		GGGG			6	25
5528-13252	00000/0000	1-20074/0046	09/28/76	100	1305	4849N	05902W	30.6	138.0		FGGG			6	26
5528-13254	00000/0000	1-20074/0047	09/28/76	100	1305	4724N	05938W	31.4	136.9		GGGG			6	27
5528-13261	00000/0000	1-20074/0048	09/28/76	100	1305	4559N	06012W	32.2	135.8		GGGG			6	28
5528-13263	00000/0000	1-20074/0049	09/28/76	100	1305	4434N	06045W	33.0	134.7		GGGG			6	29
5528-13270	00000/0000	1-20074/0050	09/28/76	100	1305	4308N	06116W	33.8	133.6		GGGG			6	30
5528-13272	00000/0000	1-20074/0051	09/28/76	100	1305	4141N	06147W	34.5	132.5		GGGG			6	31
5528-16512	00000/0000	1-20074/0052	09/28/76	0	1307	5016N	11001W	29.7	139.2		GGGG			42	25
5528-16571	00000/0000	1-20074/0053	09/28/76	70	1307	3016N	11700W	39.7	123.0		GGGG			42	39
5529-13282	00000/0000	1-20074/0070	09/29/76	70	1319	5715N	05607W	25.1	145.0		GGGG			7	20
5529-13285	00000/0000	1-20074/0071	09/29/76	70	1319	5551N	05656W	26.0	143.8		GGGG			7	21
5529-13291	00000/0000	1-20074/0072	09/29/76	80	1319	5427N	05742W	26.9	142.7		GGGG			7	22
5529-13294	00000/0000	1-20074/0073	09/29/76	90	1319	5303N	05826W	27.7	141.6		GGGG			7	23
5529-13300	00000/0000	1-20074/0074	09/29/76	50	1319	5139N	05907W	28.6	140.5		GGGG			7	24
5529-13303	00000/0000	1-20074/0075	09/29/76	50	1319	5015N	05946W	29.4	139.4		FGGG			7	25
5529-13305	00000/0000	1-20074/0076	09/29/76	50	1319	4850N	06023W	30.3	138.3		FGGG			7	26
5529-13312	00000/0000	1-20074/0077	09/29/76	60	1319	4726N	06100W	31.1	137.2		GGGG			7	27

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
8BSERVATI8N ID LISTING
F8R N8N-US
FR8M 07/23/76 T8 07/23/77

8BSERVATI8N ID	MICR8FILM P8SITI8N RBV	R8LL N8./ IN R8LL MSS	DATE ACQUIRED	CL8UD C8VER	8RBIT NUMBER	PRINCIPAL P8INT 8F IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA M8DE	MSS IMAGE GAIN	8RBIT PATH NUMBER	FRAME R8W NUMBER
5529-13314	00000/0000	1-20074/0078	09/29/76	40	1319	4601N	06135W	31.9	136.1		GGGG			7	28
5529-13321	00000/0000	1-20074/0079	09/29/76	30	1319	4434N	06208W	32.7	135.0		GGGG			7	29
5529-13323	00000/0000	1-20074/0080	09/29/76	20	1319	4308N	06241W	33.5	133.9		GGGG			7	30
5529-13330	00000/0000	1-20074/0081	09/29/76	40	1319	4142N	06312W	34.2	132.8		FGGG			7	31
5529-15132	00000/0000	1-20074/0082	09/29/76	80	1320	5138N	08500W	28.6	140.5		GGGG			25	24
5529-15135	00000/0000	1-20074/0083	09/29/76	90	1320	5013N	08539W	29.4	139.4		GGGG			25	25
5529-16570	00000/0000	1-20074/0069	09/29/76	20	1321	5014N	11129W	29.4	139.4		GGF			43	25
5530-13352	00000/0000	1-20074/0054	09/30/76	80	1333	5303N	05952W	27.4	141.8		GGGG			8	23
5530-13354	00000/0000	1-20074/0055	09/30/76	40	1333	5139N	06034W	28.2	140.7		GGGG			8	24
5530-13361	00000/0000	1-20074/0056	09/30/76	40	1333	5015N	06113W	29.1	139.6		GGGG			8	25
5530-13363	00000/0000	1-20074/0057	09/30/76	30	1333	4851N	06150W	29.9	138.6		GGGG			8	26
5530-13370	00000/0000	1-20074/0058	09/30/76	50	1333	4726N	06225W	30.8	137.5		GGGG			8	27
5530-13372	00000/0000	1-20074/0059	09/30/76	60	1333	4600N	06259W	31.6	136.4		GGGG			8	28
5530-13375	00000/0000	1-20074/0060	09/30/76	10	1333	4435N	06332W	32.4	135.3		FGGG			8	29
5530-13381	00000/0000	1-20074/0061	09/30/76	10	1333	4310N	06405W	33.2	134.2		GGGG			8	30
5530-13384	00000/0000	1-20074/0062	09/30/76	10	1333	4145N	06437W	33.9	133.1		GGGG			8	31
5530-15192	00000/0000	1-20074/0063	09/30/76	60	1334	5017N	08707W	29.1	139.6		GGGG			26	25
5530-15272	00000/0000	1-20074/0064	09/30/76	80	1334	2308N	09554W	41.9	117.3		GGGG			26	44
5530-15274	00000/0000	1-20074/0065	09/30/76	90	1334	2141N	09616W	42.3	116.0		FGFF			26	45
5530-15281	00000/0000	1-20074/0066	09/30/76	60	1334	2015N	09639W	42.7	114.6		GGFF			26	46
5530-17022	00000/0000	1-20074/0067	09/30/76	50	1335	5139N	11213W	28.2	140.7		GGG			44	24
5530-17024	00000/0000	1-20074/0068	09/30/76	20	1335	5015N	11254W	29.1	139.7		GGGG			44	25
5531-17082	00000/0000	1-20074/0098	10/01/76	10	1349	5014N	11420W	28.7	139.9		GGGG			45	25
5532-15302	00000/0000	1-20074/0084	10/02/76	0	1362	5138N	08916W	27.6	141.2		FGGG			28	24
5532-15304	00000/0000	1-20074/0085	10/02/76	0	1362	5014N	08956W	28.4	140.1		GGGG			28	25
5532-15381	00000/0000	1-20074/0102	10/02/76	20	1362	2433N	09825W	41.0	119.6		FGGG			28	43
5532-17140	00000/0000	1-20074/0086	10/02/76	90	1363	5012N	11545W	28.4	140.1		GGGG			46	25
5533-13533	00000/0000	1-20074/0087	10/03/76	30	1375	4850N	06610W	29.0	139.3		FGGG			11	26
5533-15360	00000/0000	1-20074/0088	10/03/76	80	1376	5139N	09041W	27.2	141.4		GGGG			29	24
5533-15362	00000/0000	1-20074/0089	10/03/76	80	1376	5015N	09121W	28.1	140.4		GGGG			29	25
5533-17194	00000/0000	1-20074/0103	10/03/76	60	1377	5013N	11710W	28.1	140.4		GGGG			47	25
5533-17244	00000/0000	1-20074/0104	10/03/76	60	1377	3310N	12321W	37.3	127.4		GGFG			47	37
5534-13582	00000/0000	1-20074/0090	10/04/76	60	1389	5137N	06619W	26.9	141.6		G GG			12	24
5534-13585	00000/0000	1-20074/0091	10/04/76	10	1389	5013N	06659W	27.8	140.6		G GF			12	25
5534-13591	00000/0000	1-20074/0092	10/04/76	10	1389	4849N	06737W	28.7	139.5		G GG			12	26
5534-14032	00000/0000	1-20074/0093	10/04/76	30	1389	3434N	07243W	36.4	128.9		FGGG			12	36

KEYS: CL8UD C8VER % ..... 0 T8 100 = % CL8UD C8VER,
IMAGE QUALITY ..... BLANKS=BAND N8T AVAILABLE, G=G88D, P=P88R, F=FAIR.
MSS DATA M8DE..... (BLANK)=C8MPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=L8W GAIN, H=HIGH GAIN

05:39 OCT 22,'77

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5534-14035	00000/0000	1-20074/0094	10/04/76	20	1389	3308N	07308W	37.1	127.8		FGGG			12	37
5534-14041	00000/0000	1-20074/0095	10/04/76	20	1389	3142N	07333W	37.8	126.6		GGGG			12	38
5534-15414	00000/0000	1-20074/0096	10/04/76	60	1390	5137N	09209W	26.9	141.6		GGGG			30	24
5534-15420	00000/0000	1-20074/0097	10/04/76	60	1390	5012N	09248W	27.8	140.6		GGGG			30	25
5534-17243	00000/0000	1-20074/0099	10/04/76	10	1391	5302N	11715W	26.0	142.7		GGGG			48	23
5534-17245	00000/0000	1-20074/0100	10/04/76	10	1391	5138N	11757W	26.9	141.7		GGGG			48	24
5534-17252	00000/0000	1-20074/0101	10/04/76	20	1391	5014N	11836W	27.7	140.6		GGGG			48	25
5535-14045	00000/0000	1-20074/0105	10/05/76	20	1403	4852N	06903W	28.3	139.8		GGGG			13	26
5536-14103	00000/0000	1-20074/0106	10/06/76	50	1417	4848N	07031W	28.0	140.0		GGGG			14	26
5538-12381	00000/0000	1-20074/0107	10/08/76	100	1444	5011N	04656W	26.5	141.5		FGGG			249	25
5538-12383	00000/0000	1-20074/0108	10/08/76	100	1444	4847N	04734W	27.4	140.5		GGGG			249	26
5538-12390	00000/0000	1-20074/0109	10/08/76	90	1444	4722N	04810W	28.3	139.5		GGGG			249	27
5538-12392	00000/0000	1-20074/0110	10/08/76	90	1444	4557N	04844W	29.1	138.5		FGGG			249	28
5538-12395	00000/0000	1-20074/0111	10/08/76	80	1444	4432N	04917W	30.0	137.5		GGGG			249	29
5538-12401	00000/0000	1-20074/0112	10/08/76	40	1444	4306N	04949W	30.8	136.5		GGGG			249	30
5538-12404	00000/0000	1-20074/0113	10/08/76	40	1444	4141N	05020W	31.6	135.5		GGGG			249	31
5538-17480	00000/0000	1-20074/0114	10/08/76	80	1447	5012N	12421W	26.4	141.5		GGG			52	25
5538-17494	00000/0000	1-20074/0115	10/08/76	90	1447	4432N	12643W	29.9	137.6		FGGG			52	29
5538-17500	00000/0000	1-20074/0116	10/08/76	70	1447	4307N	12715W	30.7	136.6		FGGG			52	30
5539-12432	00000/0000	1-20074/0118	10/09/76	90	1458	5138N	04738W	25.3	142.7		GGGG			250	24
5539-12435	00000/0000	1-20074/0119	10/09/76	90	1458	5013N	04819W	26.2	141.7		GGGG			250	25
5539-12441	00000/0000	1-20074/0120	10/09/76	90	1458	4848N	04858W	27.1	140.7		GGGG			250	26
5539-12444	00000/0000	1-20074/0121	10/09/76	90	1458	4723N	04935W	27.9	139.7		GGGG			250	27
5539-12450	00000/0000	1-20074/0122	10/09/76	90	1458	4558N	05010W	28.8	138.7		GGGG			250	28
5539-12453	00000/0000	1-20074/0123	10/09/76	90	1458	4433N	05044W	29.7	137.8		GGGG			250	29
5539-12455	00000/0000	1-20074/0124	10/09/76	80	1458	4308N	05116W	30.5	136.8		GGGG			250	30
5539-12462	00000/0000	1-20074/0125	10/09/76	30	1458	4142N	05146W	31.3	135.8		GGGG			250	31
5539-16102	00000/0000	1-20074/0117	10/09/76	30	1460	5014N	10000W	26.1	141.7		GGGF			35	25
5540-12484	00000/0000	1-20074/0152	10/10/76	100	1472	5303N	04823W	24.0	143.9		GG			251	23
5540-12490	00000/0000	1-20074/0153	10/10/76	100	1472	5139N	04904W	25.0	142.9		GGGG			251	24
5540-12493	00000/0000	1-20074/0154	10/10/76	90	1472	5014N	04944W	25.9	141.9		GGGG			251	25
5540-12495	00000/0000	1-20074/0155	10/10/76	90	1472	4849N	05022W	26.7	140.9		GGGG			251	26
5540-12502	00000/0000	1-20074/0156	10/10/76	90	1472	4724N	05100W	27.6	140.0		GGGG			251	27
5540-12504	00000/0000	1-20074/0157	10/10/76	90	1472	4559N	05136W	28.5	139.0		GGGG			251	28
5540-12511	00000/0000	1-20074/0158	10/10/76	90	1472	4434N	05210W	29.3	138.0		GGGG			251	29
5540-12513	00000/0000	1-20074/0159	10/10/76	80	1472	4310N	05242W	30.2	137.1		GGGG			251	30

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

05:39 OCT 22,'77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5540-12520	00000/0000	1-20074/0160	10/10/76	80	1472	4145N	05313W	31.0	136.1		GGGG			251	31
5540-16160	00000/0000	1-20074/0126	10/10/76	20	1474	5014N	10124W	25.8	142.0		GGGG			36	25
5541-12535	00000/0000	1-20074/0141	10/11/76	90	1486	5427N	04908W	22.8	145.1		GGGG			1	22
5541-12542	00000/0000	1-20074/0142	10/11/76	90	1486	5302N	04951W	23.7	144.1		GGGG			1	23
5541-12544	00000/0000	1-20074/0143	10/11/76	90	1486	5138N	05032W	24.6	143.1		GGGG			1	24
5541-12551	00000/0000	1-20074/0144	10/11/76	60	1486	5014N	05111W	25.5	142.1		GGGG			1	25
5541-12553	00000/0000	1-20074/0145	10/11/76	40	1486	4850N	05148W	26.4	141.2		GGGG			1	26
5541-12560	00000/0000	1-20074/0146	10/11/76	80	1486	4726N	05224W	27.3	140.2		GGGG			1	27
5541-12562	00000/0000	1-20074/0147	10/11/76	90	1486	4600N	05259W	28.2	139.2		GGGG			1	28
5541-12565	00000/0000	1-20074/0148	10/11/76	80	1486	4435N	05334W	29.0	138.3		GGGG			1	29
5541-12571	00000/0000	1-20074/0149	10/11/76	80	1486	4310N	05407W	29.9	137.3		GGGG			1	30
5541-12574	00000/0000	1-20074/0150	10/11/76	90	1486	4145N	05438W	30.7	136.3		GGGG			1	31
5541-14382	00000/0000	1-20074/0151	10/11/76	50	1487	5012N	07702W	25.5	142.1		GGGG			19	25
5541-16202	00000/0000	1-20074/0127	10/11/76	0	1488	5425N	10046W	22.7	145.1		GGFG			37	22
5541-16205	00000/0000	1-20074/0128	10/11/76	10	1488	5301N	10130W	23.7	144.1		GGGG			37	23
5541-16211	00000/0000	1-20074/0129	10/11/76	10	1488	5136N	10212W	24.6	143.1		GGGG			37	24
5541-16214	00000/0000	1-20074/0130	10/11/76	20	1488	5012N	10251W	25.5	142.1		GGGG			37	25
5542-12593	00000/0000	1-20074/0131	10/12/76	70	1500	5427N	05033W	22.4	145.2		GGGG			2	22
5542-12595	00000/0000	1-20074/0132	10/12/76	70	1500	5303N	05117W	23.4	144.3		GGG			2	23
5542-13002	00000/0000	1-20074/0133	10/12/76	50	1500	5139N	05159W	24.3	143.3		GGG			2	24
5542-13004	00000/0000	1-20074/0134	10/12/76	50	1500	5015N	05239W	25.2	142.3		GGGG			2	25
5542-13011	00000/0000	1-20074/0135	10/12/76	90	1500	4850N	05317W	26.1	141.4		GGGG			2	26
5542-13013	00000/0000	1-20074/0136	10/12/76	80	1500	4725N	05354W	27.0	140.4		GGGG			2	27
5542-13020	00000/0000	1-20074/0137	10/12/76	70	1500	4602N	05430W	27.8	139.5		GGGG			2	28
5542-13022	00000/0000	1-20074/0138	10/12/76	50	1500	4438N	05504W	28.7	138.5		GGFF			2	29
5542-13025	00000/0000	1-20074/0139	10/12/76	80	1500	4313N	05536W	29.5	137.6		GGFF			2	30
5542-13031	00000/0000	1-20074/0140	10/12/76	80	1500	4147N	05606W	30.4	136.6		GGGG			2	31
5542-18024	00000/0000	1-20074/0161	10/12/76	80	1503	7539N	10134W	6.7	172.6		FGGG			56	6
5542-18030	00000/0000	1-20074/0162	10/12/76	30	1503	7430N	10501W	7.7	169.3		GGFF			56	7
5542-18033	00000/0000	1-20074/0163	10/12/76	30	1503	7317N	10801W	8.7	166.4		GGGF			56	8
5542-18035	00000/0000	1-20074/0164	10/12/76	80	1503	7203N	11038W	9.7	163.8		GFGG			56	9
5542-18042	00000/0000	1-20074/0165	10/12/76	70	1503	7046N	11256W	10.7	161.6		GGGG			56	10
5542-18044	00000/0000	1-20074/0166	10/12/76	50	1503	6929N	11457W	11.7	159.6		GGGG			56	11
5542-18053	00000/0000	1-20074/0167	10/12/76	10	1503	6651N	11823W	13.7	156.1		FGGG			56	13
5542-18060	00000/0000	1-20074/0168	10/12/76	40	1503	6529N	11950W	14.7	154.6		FGGG			56	14
5542-18062	00000/0000	1-20074/0169	10/12/76	40	1503	6408N	12109W	15.6	153.2		FGGG			56	15

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LANDSAT-1
OBSERVATION ID LISTING
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OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5542-18065	00000/0000	1-20074/0170	10/12/76	30	1503	6247N	12222W	16.6	151.9		GGGG			56	16
5542-18071	00000/0000	1-20074/0171	10/12/76	20	1503	6125N	12328W	17.6	150.7		FFGG			56	17
5542-18074	00000/0000	1-20074/0172	10/12/76	10	1503	6002N	12429W	18.6	149.5		FGGG			56	18
5542-18080	00000/0000	1-20074/0173	10/12/76	40	1503	5839N	12527W	19.5	148.4		GGGG			56	19
5542-18083	00000/0000	1-20074/0174	10/12/76	90	1503	5716N	12620W	20.5	147.3		GFGF			56	20
5542-18094	00000/0000	1-20074/0175	10/12/76	100	1503	5304N	12843W	23.3	144.3		GGGG			56	23
5542-18101	00000/0000	1-20074/0176	10/12/76	100	1503	5140N	12924W	24.2	143.3		GGGG			56	24
5542-18103	00000/0000	1-20074/0177	10/12/76	90	1503	5015N	13003W	25.1	142.4		GGGF			56	25
5543-13051	00000/0000	1-20074/0184	10/13/76	100	1514	5428N	05159W	22.1	145.4		FFGG			3	22
5543-13053	00000/0000	1-20074/0185	10/13/76	90	1514	5304N	05243W	23.0	144.5		GGGG			3	23
5543-13060	00000/0000	1-20074/0186	10/13/76	90	1514	5140N	05325W	23.9	143.5		FGGG			3	24
5543-13062	00000/0000	1-20074/0187	10/13/76	80	1514	5016N	05405W	24.8	142.5		GGGG			3	25
5543-13065	00000/0000	1-20074/0188	10/13/76	40	1514	4852N	05444W	25.7	141.6		GGGG			3	26
5543-13071	00000/0000	1-20074/0189	10/13/76	50	1514	4728N	05521W	26.6	140.7		GFGG			3	27
5543-13074	00000/0000	1-20074/0190	10/13/76	80	1514	4602N	05556W	27.5	139.7		GGGG			3	28
5543-13080	00000/0000	1-20074/0191	10/13/76	90	1514	4437N	05629W	28.4	138.8		FGGG			3	29
5543-13083	00000/0000	1-20074/0192	10/13/76	90	1514	4311N	05700W	29.2	137.8		GGGG			3	30
5543-13085	00000/0000	1-20074/0193	10/13/76	90	1514	4146N	05731W	30.1	136.9		GGGG			3	31
5543-16305	00000/0000	1-20074/0194	10/13/76	40	1516	5713N	10200W	20.2	147.5		GGGG			39	20
5543-16312	00000/0000	1-20074/0195	10/13/76	70	1516	5550N	10250W	21.1	146.4		GGGG			39	21
5543-16314	00000/0000	1-20074/0196	10/13/76	100	1516	5426N	10337W	22.1	145.4		GGGG			39	22
5543-16321	00000/0000	1-20074/0197	10/13/76	100	1516	5302N	10421W	23.0	144.5		GGGG			39	23
5543-16323	00000/0000	1-20074/0198	10/13/76	80	1516	5138N	10503W	23.9	143.5		GGGG			39	24
5543-16330	00000/0000	1-20074/0199	10/13/76	40	1516	5013N	10543W	24.8	142.6		FGGG			39	25
5544-13102	00000/0000	1-20074/0200	10/14/76	100	1528	5549N	05239W	20.8	146.6		GGGG			4	21
5544-13105	00000/0000	1-20074/0201	10/14/76	90	1528	5425N	05325W	21.8	145.6		GGGG			4	22
5544-13111	00000/0000	1-20074/0202	10/14/76	90	1528	5301N	05410W	22.7	144.6		GGGG			4	23
5544-13114	00000/0000	1-20074/0203	10/14/76	90	1528	5137N	05452W	23.6	143.7		GGGG			4	24
5544-13120	00000/0000	1-20074/0204	10/14/76	60	1528	5012N	05533W	24.5	142.7		GGGG			4	25
5544-13123	00000/0000	1-20074/0205	10/14/76	90	1528	4847N	05611W	25.4	141.8		GGGG			4	26
5544-13125	00000/0000	1-20074/0206	10/14/76	80	1528	4723N	05647W	26.3	140.9		GGGG			4	27
5544-13132	00000/0000	1-20074/0207	10/14/76	50	1528	4558N	05721W	27.2	139.9		GGGG			4	28
5544-13134	00000/0000	1-20074/0208	10/14/76	40	1528	4433N	05754W	28.1	139.0		GGGG			4	29
5544-13141	00000/0000	1-20074/0209	10/14/76	70	1528	4308N	05825W	29.0	138.1		GGGG			4	30
5544-13143	00000/0000	1-20074/0210	10/14/76	80	1528	4142N	05856W	29.8	137.1		GGGG			4	31
5544-16363	00000/0000	1-20074/0178	10/14/76	90	1530	5710N	10327W	19.9	147.6		FGFG			40	20

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OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ ROLL IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5544-16370	00000/0000	1-20074/0179	10/14/76	100	1530	5547N	10417W	20.8	146.6		FGGF			40	21
5544-16372	00000/0000	1-20074/0180	10/14/76	100	1530	5423N	10504W	21.7	145.6		GGFF			40	22
5544-16375	00000/0000	1-20074/0181	10/14/76	90	1530	5300N	10547W	22.7	144.6		GGGG			40	23
5544-16381	00000/0000	1-20074/0182	10/14/76	90	1530	5135N	10629W	23.6	143.7		GGGF			40	24
5544-16443	00000/0000	1-20074/0183	10/14/76	10	1530	3015N	11409W	36.0	129.1		GFGG			40	39
5545-13160	00000/0000	1-20074/0219	10/15/76	100	1542	5547N	05407W	20.5	146.7		GGGG			5	21
5545-13163	00000/0000	1-20074/0220	10/15/76	100	1542	5424N	05454W	21.5	145.7		GGGG			5	22
5545-13165	00000/0000	1-20074/0221	10/15/76	100	1542	5259N	05538W	22.4	144.8		GGGG			5	23
5545-13172	00000/0000	1-20074/0222	10/15/76	100	1542	5134N	05620W	23.3	143.8		GGGG			5	24
5545-13174	00000/0000	1-20074/0223	10/15/76	90	1542	5010N	05700W	24.2	142.9		GGGG			5	25
5545-13181	00000/0000	1-20074/0224	10/15/76	70	1542	4845N	05737W	25.1	142.0		GGGG			5	26
5545-13183	00000/0000	1-20074/0225	10/15/76	60	1542	4721N	05812W	26.0	141.0		GGGG			5	27
5545-13190	00000/0000	1-20074/0226	10/15/76	60	1542	4556N	05846W	26.9	140.1		GGGG			5	28
5545-13192	00000/0000	1-20074/0227	10/15/76	50	1542	4431N	05919W	27.8	139.2		GGGG			5	29
5545-13195	00000/0000	1-20074/0228	10/15/76	50	1542	4305N	05952W	28.7	138.3		GGGG			5	30
5545-13201	00000/0000	1-20074/0229	10/15/76	50	1542	4140N	06024W	29.5	137.4		GGGG			5	31
5545-16414	00000/0000	1-20074/0211	10/15/76	90	1544	5836N	10355W	18.5	148.8		GGGG			41	19
5545-16421	00000/0000	1-20074/0212	10/15/76	90	1544	5713N	10449W	19.5	147.7		GGGG			41	20
5545-16423	00000/0000	1-20074/0213	10/15/76	90	1544	5550N	10539W	20.4	146.7		FGGG			41	21
5545-16430	00000/0000	1-20074/0214	10/15/76	90	1544	5426N	10627W	21.4	145.8		GGGG			41	22
5545-16432	00000/0000	1-20074/0215	10/15/76	90	1544	5302N	10712W	22.3	144.8		GGGG			41	23
5545-16435	00000/0000	1-20074/0216	10/15/76	100	1544	5137N	10754W	23.3	143.9		GGGG			41	24
5545-16441	00000/0000	1-20074/0217	10/15/76	90	1544	5012N	10834W	24.2	142.9		GGGG			41	25
5545-16500	00000/0000	1-20074/0218	10/15/76	50	1544	3016N	11533W	35.7	129.5		GGGG			41	39
5546-13212	00000/0000	1-20074/0230	10/16/76	90	1556	5713N	05441W	19.2	147.9		GGGG			6	20
5546-13214	00000/0000	1-20074/0231	10/16/76	90	1556	5549N	05531W	20.2	146.9		GGGG			6	21
5546-13221	00000/0000	1-20074/0232	10/16/76	100	1556	5425N	05618W	21.1	145.9		GGGG			6	22
5546-13223	00000/0000	1-20074/0233	10/16/76	90	1556	5300N	05702W	22.0	144.9		GGGG			6	23
5546-13230	00000/0000	1-20074/0234	10/16/76	70	1556	5135N	05745W	23.0	144.0		GGGG			6	24
5546-13232	00000/0000	1-20074/0235	10/16/76	80	1556	5010N	05825W	23.9	143.1		GGGG			6	25
5546-13235	00000/0000	1-20074/0236	10/16/76	70	1556	4845N	05903W	24.8	142.2		GGGG			6	26
5546-13241	00000/0000	1-20074/0237	10/16/76	90	1556	4720N	05939W	25.7	141.3		GGGG			6	27
5546-13244	00000/0000	1-20074/0238	10/16/76	70	1556	4556N	06013W	26.6	140.4		GGGG			6	28
5546-13250	00000/0000	1-20074/0239	10/16/76	50	1556	4431N	06046W	27.5	139.4		GGGG			6	29
5546-13253	00000/0000	1-20074/0240	10/16/76	30	1556	4307N	06117W	28.4	138.5		GGGG			6	30
5546-13255	00000/0000	1-20074/0241	10/16/76	30	1556	4141N	06148W	29.2	137.6		GGGG			6	31

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5546-16493	00000/0000	1-20074/0242	10/16/76	10	1558	5138N	10919W	22.9	144.0		FGGG			42	24
5546-16495	00000/0000	1-20074/0243	10/16/76	20	1558	5013N	10959W	23.8	143.1		FFGG			42	25
5547-13270	00000/0000	1-20074/0244	10/17/76	100	1570	5713N	05606W	18.9	148.0		GGGG			7	20
5547-13272	00000/0000	1-20074/0245	10/17/76	90	1570	5549N	05656W	19.8	147.0		GGGG			7	21
5547-13275	00000/0000	1-20074/0246	10/17/76	90	1570	5425N	05742W	20.8	146.1		GGGG			7	22
5547-13281	00000/0000	1-20074/0247	10/17/76	60	1570	5301N	05826W	21.7	145.1		GGGG			7	23
5547-13284	00000/0000	1-20074/0248	10/17/76	50	1570	5138N	05908W	22.6	144.2		GGGG			7	24
5547-13290	00000/0000	1-20074/0249	10/17/76	80	1570	5014N	05948W	23.6	143.3		GGGG			7	25
5547-13293	00000/0000	1-20074/0250	10/17/76	80	1570	4849N	06026W	24.5	142.4		GGGG			7	26
5547-13295	00000/0000	1-20074/0251	10/17/76	90	1570	4723N	06103W	25.4	141.5		GGGG			7	27
5547-13302	00000/0000	1-20074/0252	10/17/76	70	1570	4558N	06137W	26.3	140.6		GGGG			7	28
5547-13304	00000/0000	1-20074/0253	10/17/76	50	1570	4432N	06210W	27.2	139.7		GGGG			7	29
5547-13311	00000/0000	1-20074/0254	10/17/76	50	1570	4308N	06242W	28.0	138.8		GGGG			7	30
5547-13313	00000/0000	1-20074/0255	10/17/76	60	1570	4143N	06313W	28.9	137.9		GGGG			7	31
5548-13324	00000/0000	1-20074/0256	10/18/76	90	1584	5711N	05735W	18.5	148.1		GGGG			8	20
5548-13330	00000/0000	1-20074/0257	10/18/76	90	1584	5547N	05824W	19.5	147.1		GGGG			8	21
5548-13333	00000/0000	1-20074/0258	10/18/76	90	1584	5423N	05911W	20.5	146.2		GGGG			8	22
5548-13335	00000/0000	1-20074/0259	10/18/76	90	1584	5259N	05955W	21.4	145.3		FGGG			8	23
5548-13342	00000/0000	1-20074/0260	10/18/76	90	1584	5134N	06037W	22.3	144.3		GFGG			8	24
5548-13344	00000/0000	1-20074/0261	10/18/76	100	1584	5010N	06117W	23.3	143.4		GGGG			8	25
5548-13351	00000/0000	1-20074/0262	10/18/76	100	1584	4846N	06155W	24.2	142.5		FGGG			8	26
5548-13353	00000/0000	1-20074/0263	10/18/76	100	1584	4721N	06232W	25.1	141.7		FFGG			8	27
5548-13360	00000/0000	1-20074/0264	10/18/76	100	1584	4556N	06307W	26.0	140.8		GGGG			8	28
5548-13362	00000/0000	1-20074/0265	10/18/76	100	1584	4431N	06340W	26.9	139.9		GGGG			8	29
5548-13365	00000/0000	1-20074/0266	10/18/76	90	1584	4306N	06412W	27.8	139.0		GGGG			8	30
5548-13371	00000/0000	1-20074/0267	10/18/76	90	1584	4141N	06442W	28.6	138.1		GGFG			8	31
5654-17025	00000/0000	1-20075/0001	02/01/77	80	3064	3145N	12048W	22.7	129.1		GGGG			45	38
5654-17032	00000/0000	1-20075/0002	02/01/77	70	3064	3019N	12113W	23.4	128.4		GGGG			45	39
5654-17034	00000/0000	1-20075/0003	02/01/77	90	3064	2854N	12137W	24.1	127.7		GGGG			45	40
5655-17083	00000/0000	1-20075/0004	02/02/77	80	3078	3145N	12217W	22.9	128.9		GGGG			46	38
5656-13424	00000/0000	1-20075/0006	02/03/77	20	3090	4851N	06606W	14.0	136.8		GGGG			11	26
5656-17134	00000/0000	1-20075/0005	02/03/77	60	3092	3312N	12318W	22.4	129.3		GGGG			47	37
5657-15384	00000/0000	1-20075/0007	02/04/77	30	3105	2432N	10119W	26.5	124.6		GGGG			30	43
5657-15390	00000/0000	1-20075/0008	02/04/77	30	3105	2306N	10141W	27.1	123.9		GGGG			30	44
5657-15393	00000/0000	1-20075/0009	02/04/77	10	3105	2139N	10202W	27.7	123.1		GGGG			30	45
5657-15395	00000/0000	1-20075/0010	02/04/77	0	3105	2012N	10224W	28.3	122.3		GGGG			30	46

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LANDSAT=1
OBSERVATION ID LISTING
FOR NON=US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5657-15402	00000/0000	1-20075/0011	02/04/77	0	3105	1846N	10246W	28.8	121.4		GGGG			30	47
5657-15404	00000/0000	1-20075/0012	02/04/77	10	3105	1719N	10306W	29.4	120.6		FGGG			30	48
5657-15411	00000/0000	1-20075/0013	02/04/77	20	3105	1553N	10327W	29.9	119.8		GGGG			30	49
5657-17142	00000/0000	1-20075/0015	02/04/77	30	3146	5017N	11829W	13.5	137.3		GFGG			48	25
5667-16333	00000/0000	1-20075/0014	02/14/77	10	3245	3016N	11406W	26.0	124.9		GGGG			40	39
5668-13091	00000/0000	1-20075/0016	02/15/77	20	3257	4144N	06018W	20.9	130.8		FGGG			5	31
5673-15255	00000/0000	1-20075/0017	02/20/77	90	3328	2434N	09828W	29.5	119.7		GGGG			28	43
5673-15261	00000/0000	1-20075/0018	02/20/77	90	3328	2308N	09850W	30.0	118.8		FFFF			28	44
5673-15264	00000/0000	1-20075/0019	02/20/77	70	3328	2142N	09911W	30.5	117.9		GGGG			28	45
5673-15270	00000/0000	1-20075/0020	02/20/77	10	3328	2015N	09933W	30.9	117.0		GGGG			28	46
5673-15273	00000/0000	1-20075/0021	02/20/77	10	3328	1848N	09955W	31.3	116.0		GGGG			28	47
5674-15312	00000/0000	1-20075/0022	02/21/77	80	3342	2436N	09954W	29.7	119.3		GGGG			29	43
5680-14123	00000/0000	1-20076/0006	02/27/77	80	3425	5712N	07024W	16.7	138.0		GGGG			17	20
5680-14125	00000/0000	1-20076/0007	02/27/77	90	3425	5549N	07114W	17.5	137.0		GGGG			17	21
5680-14132	00000/0000	1-20076/0008	02/27/77	90	3425	5426N	07200W	18.2	136.0		GGGG			17	22
5680-14134	00000/0000	1-20076/0009	02/27/77	100	3425	5302N	07245W	19.0	135.1		GGGG			17	23
5680-14141	00000/0000	1-20076/0010	02/27/77	100	3425	5137N	07327W	19.7	134.2		GGGG			17	24
5680-14143	00000/0000	1-20076/0011	02/27/77	90	3425	5013N	07407W	20.4	133.3		GGGG			17	25
5680-15545	00000/0000	1-20076/0001	02/27/77	30	3426	5959N	09419W	15.3	140.1		GGGG			35	18
5680-15552	00000/0000	1-20076/0002	02/27/77	10	3426	5837N	09517W	16.0	139.0		GGGG			35	19
5680-15554	00000/0000	1-20076/0003	02/27/77	10	3426	5713N	09611W	16.8	137.9		GGGG			35	20
5680-15561	00000/0000	1-20076/0004	02/27/77	40	3426	5549N	09702W	17.5	137.0		GGGG			35	21
5680-15563	00000/0000	1-20076/0005	02/27/77	30	3426	5424N	09749W	18.3	136.0		GGGG			35	22
5680-15570	00000/0000	1-20076/0012	02/27/77	30	3426	5300N	09834W	19.0	135.1		PPFF			35	23
5680-15572	00000/0000	1-20076/0013	02/27/77	40	3426	5135N	09916W	19.7	134.2		GGGG			35	24
5680-15575	00000/0000	1-20076/0014	02/27/77	60	3426	5011N	09955W	20.5	133.3		FGGG			35	25
5681-16101	00000/0000	1-20076/0020	02/28/77	0	3440	2722N	10911W	30.4	118.8		GGGG			36	41
5681-16103	00000/0000	1-20076/0021	02/28/77	0	3440	2557N	10934W	30.9	117.9		GGGG			36	42
5681-16110	00000/0000	1-20076/0023	02/28/77	10	3440	2431N	10957W	31.3	116.9		GG		H	36	43
5681-16112	00000/0000	1-20076/0022	02/28/77	10	3440	2306N	11018W	31.8	116.0		GGGG		H	36	44
5682-16152	00000/0000	1-20076/0015	03/01/77	70	3454	2849N	11013W	30.2	119.4		GGGG			37	40
5682-16155	00000/0000	1-20076/0019	03/01/77	40	3454	2723N	11036W	30.7	118.5		GG			37	41
5682-16161	00000/0000	1-20076/0016	03/01/77	60	3454	2557N	11059W	31.2	117.5		GGGG		H	37	42
5682-16164	00000/0000	1-20076/0017	03/01/77	70	3454	2431N	11121W	31.6	116.6		GGGG		H	37	43
5682-16170	00000/0000	1-20076/0018	03/01/77	30	3454	2306N	11143W	32.0	115.6		GGGG		H	37	44
5683-16210	00000/0000	1-20076/0024	03/02/77	10	3468	2851N	11138W	30.5	119.1		GGGG			38	40

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
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ORIGINAL PAGE IS
OF POOR QUALITY

05:39 OCT 22,'77

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5683-16212	00000/0000	1-20076/0028	03/02/77	10	3468	2726N	11202W	30.9	118.2		GG			38	41
5683-16215	00000/0000	1-20076/0025	03/02/77	10	3468	2600N	11225W	31.4	117.2		GGGG		H	38	42
5683-16221	00000/0000	1-20076/0026	03/02/77	20	3468	2433N	11248W	31.8	116.3		GGGG		H	38	43
5683-16224	00000/0000	1-20076/0027	03/02/77	40	3468	2307N	11310W	32.2	115.3		GGGG		H	38	44
5684-12530	00000/0000	1-20076/0029	03/03/77	30	3480	5301N	05245W	20.4	134.5		FGGG			3	23
5684-12533	00000/0000	1-20076/0030	03/03/77	20	3480	5137N	05327W	21.1	133.5		GGG			3	24
5684-12535	00000/0000	1-20076/0031	03/03/77	10	3480	5012N	05407W	21.8	132.6		GGG			3	25
5684-12542	00000/0000	1-20076/0032	03/03/77	10	3480	4847N	05445W	22.5	131.7		GGG			3	26
5684-12544	00000/0000	1-20076/0033	03/03/77	20	3480	4722N	05521W	23.2	130.8		GGG			3	27
5684-12551	00000/0000	1-20076/0034	03/03/77	20	3480	4557N	05555W	23.9	129.9		GGG			3	28
5684-12553	00000/0000	1-20076/0035	03/03/77	30	3480	4432N	05628W	24.5	129.0		FGG			3	29
5684-12560	00000/0000	1-20076/0036	03/03/77	40	3480	4307N	05700W	25.2	128.1		GGG			3	30
5684-12562	00000/0000	1-20076/0037	03/03/77	50	3480	4141N	05730W	25.8	127.2		GGG			3	31
5684-12565	00000/0000	1-20076/0038	03/03/77	50	3480	4016N	05800W	26.4	126.3		GGG			3	32
5684-12571	00000/0000	1-20076/0039	03/03/77	50	3480	3850N	05829W	27.0	125.4		GGG			3	33
5726-16510	00000/0000	1-20077/0003	04/14/77	50	4068	5017N	11422W	36.8	125.3		GGG			45	25
5727-16562	00000/0000	1-20077/0001	04/15/77	60	4082	5145N	11508W	36.6	126.6		GGG			46	24
5727-16564	00000/0000	1-20077/0002	04/15/77	80	4082	5021N	11547W	37.1	125.1		GGG			46	25
5728-17015	00000/0000	1-20077/0004	04/16/77	90	4096	5144N	11633W	36.9	126.4		FFG			47	24
5728-17022	00000/0000	1-20077/0005	04/16/77	90	4096	5020N	11713W	37.5	124.9		GFG			47	25
5730-17134	00000/0000	1-20077/0006	04/18/77	80	4124	5020N	12006W	38.1	124.5		GGG			49	25
5736-16023	00000/0000	1-20078/0001	04/24/77	20	4207	5557N	09957W	37.7	129.6		GGG			37	21
5736-16030	00000/0000	1-20078/0002	04/24/77	30	4207	5432N	10045W	38.3	128.0		GGG			37	22
5736-16032	00000/0000	1-20078/0003	04/24/77	10	4207	5309N	10131W	38.8	126.4		GGG			37	23
5736-16035	00000/0000	1-20078/0004	04/24/77	0	4207	5145N	10214W	39.4	124.8		GGG			37	24
5736-16041	00000/0000	1-20078/0005	04/24/77	0	4207	5021N	10255W	39.9	123.3		GFG			37	25
5738-09200	00000/0000	1-20078/0006	04/26/77	40	4231	5846N	00209E	37.0	132.7		GGG			218	19
5738-09202	00000/0000	1-20078/0007	04/26/77	70	4231	5722N	00114E	37.6	131.0		GGG			218	20
5738-09205	00000/0000	1-20078/0008	04/26/77	90	4231	5557N	00024E	38.2	129.4		GFG			218	21
5738-09211	00000/0000	1-20078/0009	04/26/77	100	4231	5433N	00022W	38.8	127.7		FFG			218	22
5738-09214	00000/0000	1-20078/0010	04/26/77	90	4231	5310N	00106W	39.3	126.1		FGF			218	23
5739-09260	00000/0000	1-20078/0012	04/27/77	50	4245	5722N	00012W	37.9	130.8		GGG			219	20
5739-09263	00000/0000	1-20078/0013	04/27/77	40	4245	5556N	00101W	38.5	129.2		FGG			219	21
5739-09265	00000/0000	1-20078/0014	04/27/77	40	4245	5431N	00149W	39.1	127.5		GGG			219	22
5739-09272	00000/0000	1-20078/0015	04/27/77	30	4245	5306N	00233W	39.6	125.9		GGG			219	23
5740-09311	00000/0000	1-20078/0016	04/28/77	60	4259	5846N	00044W	37.6	132.4		GGG			220	19

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LANDSAT-1
OBSERVATION ID LISTING
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FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION REV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL REV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5740-09314	00000/0000	1-20078/0017	04/28/77	90	4259	5722N	00138W	38.2	130.7		GGG			220	20
5740-09320	00000/0000	1-20078/0018	04/28/77	90	4259	5559N	00228W	38.8	129.1		GGG			220	21
5740-09323	00000/0000	1-20078/0019	04/28/77	60	4259	5435N	00316W	39.4	127.4		GGG			220	22
5740-09325	00000/0000	1-20078/0020	04/28/77	50	4259	5311N	00359W	39.9	125.8		GGG			220	23
5742-09423	00000/0000	1-20078/0021	04/30/77	30	4287	5846N	00338W	38.2	132.1		GGG			222	19
5742-09430	00000/0000	1-20078/0022	04/30/77	50	4287	5723N	00432W	38.8	130.4		GGG			222	20
5744-16492	00000/0000	1-20078/0023	05/02/77	50	4319	5020N	11422W	42.0	121.5		GGF			45	25
5744-20091	00000/0000	1-20078/0024	05/02/77	30	4321	7210N	14620W	31.8	153.6		GGG			82	9
5745-20145	00000/0000	1-20078/0025	05/03/77	90	4335	7210N	14748W	32.1	153.6		GGG			83	9
5750-17254	00000/0000	1-20078/0011	05/08/77	20	4403	4150N	12624W	45.2	109.8		GGG			51	31
5751-17303	00000/0000	1-20078/0026	05/09/77	70	4417	4440N	12647W	44.9	113.0		GGG			52	29
5751-17310	00000/0000	1-20078/0027	05/09/77	70	4417	4314N	12719W	45.2	111.2		GGG			52	30
5752-14083	00000/0000	1-20078/0028	05/10/77	30	4429	4855N	07452W	44.2	11840		FGG			17	26
5755-16081	00000/0000	1-20079/0006	05/13/77	0	4472	5017N	10423W	44.4	119.0		GGG			38	25
5755-19271	00000/0000	1-20078/0029	05/13/77	80	4474	7434N	13048W	33.1	159.8		GGG			75	7
5755-19274	00000/0000	1-20078/0030	05/13/77	90	4474	7322N	13349W	33.9	156.2		GGG			75	8
5755-19280	00000/0000	1-20078/0031	05/13/77	70	4474	7207N	13625W	34.7	152.9		GGG			75	9
5755-19283	00000/0000	1-20078/0032	05/13/77	90	4474	7052N	13842W	35.5	150.0		GGG			75	10
5756-09175	00000/0000	1-20079/0003	05/14/77	30	4482	6008N	00305E	41.1	131.9		FGG			218	18
5756-09182	00000/0000	1-20079/0004	05/14/77	30	4482	5846N	00207E	41.7	130.0		GGG			218	19
5756-19334	00000/0000	1-20079/0001	05/14/77	70	4488	7210N	13750W	34.9	152.9		GGG			76	9
5756-19341	00000/0000	1-20079/0002	05/14/77	80	4488	7054N	14008W	35.7	150.0		GGG			76	10
5758-16310	00000/0000	1-20078/0034	05/16/77	10	4514	3021N	11536W	46.3	93.6		GGG			41	39
5758-19450	00000/0000	1-20078/0033	05/16/77	30	4516	7212N	14044W	35.4	152.8		GGG			78	9
5763-13271	00000/0000	1-20079/0015	05/21/77	10	4582	4856N	06450W	46.0	115.4		GGG			10	26
5763-13292	00000/0000	1-20079/0016	05/21/77	10	4582	4146N	06735W	47.0	106.2		GGG			10	31
5763-13294	00000/0000	1-20079/0017	05/21/77	10	4582	4021N	06806W	47.1	104.4		GGG			10	32
5763-13301	00000/0000	1-20079/0018	05/21/77	10	4582	3855N	06834W	47.1	102.6		GGG			10	33
5764-13361	00000/0000	1-20079/0007	05/22/77	20	4596	3731N	07029W	47.2	100.5		GGG			11	34
5764-13364	00000/0000	1-20079/0008	05/22/77	20	4596	3605N	07055W	47.2	98.7		GGG			11	35
5764-13370	00000/0000	1-20079/0009	05/22/77	40	4596	3439N	07121W	47.1	96.9		GGG			11	36
5764-15231	00000/0000	1-20079/0005	05/22/77	50	4597	2435N	09957W	45.5	85.3		GGG			29	43
5764-16581	00000/0000	1-20079/0010	05/22/77	80	4598	5307N	11550W	45.1	120.8		GGG			47	23
5764-16584	00000/0000	1-20079/0011	05/22/77	60	4598	5142N	11632W	45.5	118.9		GGG			47	24
5764-16590	00000/0000	1-20079/0012	05/22/77	20	4598	5017N	11712W	45.8	117.0		GGG			47	25
5764-17040	00000/0000	1-20079/0013	05/22/77	90	4598	3311N	12327W	47.0	95.1		GGG			47	37

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LANDSAT-1
OBSERVATION ID LISTING
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FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5765-13383	00000/0000	1-20079/0019	05/23/77	20	4610	4853N	06741W	46.2	114.9		GGG			12	26
5765-13424	00000/0000	1-20079/0020	05/23/77	30	4610	3438N	07246W	47.2	96.6		GGG			12	36
5765-13431	00000/0000	1-20079/0021	05/23/77	30	4610	3313N	07311W	47.1	94.9		GGG			12	37
5765-13433	00000/0000	1-20079/0022	05/23/77	60	4610	3148N	07337W	46.9	93.2		GGG			12	38
5768-13553	00000/0000	1-20079/0014	05/26/77	10	4652	4854N	07200W	46.6	114.3		GGG			15	26
5769-14011	00000/0000	1-20079/0023	05/27/77	10	4666	4851N	07328W	46.7	114.0		GGG			16	26
5770-14065	00000/0000	1-20079/0024	05/28/77	20	4680	4854N	07456W	46.8	113.9		GGG			17	26
5776-16233	00000/0000	1-20079/0025	06/03/77	30	4765	5014N	10841W	46.9	114.5		GGG			41	25
5776-16292	00000/0000	1-20079/0026	06/03/77	50	4765	3016N	11539W	46.8	88.8		GGG			41	39
5778-14513	00000/0000	1-20079/0029	06/05/77	80	4792	5019N	08544W	47.0	114.2		GGG			25	25
5778-16342	00000/0000	1-20079/0027	06/05/77	0	4793	5139N	11053W	46.7	116.2		GGG			43	24
5778-16345	00000/0000	1-20079/0028	06/05/77	0	4793	5014N	11133W	47.0	114.2		GGG			43	25
5779-16402	00000/0000	1-20079/0030	06/06/77	10	4807	5014N	11300W	47.1	114.0		GGG			44	25
5781-15083	00000/0000	1-20079/0032	06/08/77	60	4834	5012N	09004W	47.1	113.6		GGG			28	25
5781-15160	00000/0000	1-20079/0031	06/08/77	0	4834	2431N	09835W	45.1	81.5		GGG			28	43
5782-15134	00000/0000	1-20079/0033	06/09/77	60	3848	5136N	09051W	46.9	115.4		GGG			29	24
5782-15140	00000/0000	1-20079/0034	06/09/77	60	3848	5012N	09131W	47.2	113.5		GGG			29	25
5782-15213	00000/0000	1-20079/0036	06/09/77	20	4848	2430N	09959W	45.1	81.4		GGG			29	43
5783-17023	00000/0000	1-20079/0037	06/10/77	10	4863	5139N	11802W	46.9	115.3		GGG			48	24
5783-17030	00000/0000	1-20079/0038	06/10/77	10	4863	5015N	11842W	47.2	113.4		GGG			48	25
5784-15262	00000/0000	00000/0000	06/11/77		4876	5011N	09423W	47.2	113.2		GFG			31	25
5784-17084	00000/0000	1-20079/0039	06/11/77	10	4877	5013N	12009W	47.2	113.2		GGG			49	25
5787-13592	00000/0000	1-20079/0035	06/14/77	80	4917	4849N	07328W	47.4	110.9		GGG			16	26
5789-15533	00000/0000	1-20079/0040	06/16/77	50	4946	5013N	10133W	47.2	112.5		GGG			36	25
5790-15591	00000/0000	1-20079/0041	06/17/77	30	4960	5012N	10300W	47.1	112.4		G			37	25
5792-16102	00000/0000	1-20079/0045	06/19/77	20	4988	5014N	10549W	47.1	112.3		GGG			39	25
5793-16154	00000/0000	1-20079/0042	06/20/77	10	5002	5139N	10634W	46.8	114.1		GGG			40	24
5793-16160	00000/0000	1-20079/0043	06/20/77	10	5002	5014N	10714W	47.0	112.2		GGG			40	25
5793-16215	00000/0000	1-20079/0044	06/20/77	0	5002	3017N	11413W	46.1	86.7		GGF			40	39
5793-19353	00000/0000	1-20080/0006	06/20/77	30	5004	7318N	13651W	38.6	152.5		GGG			77	8
5793-19355	00000/0000	1-20080/0007	06/20/77	90	5004	7203N	13927W	39.3	149.1		GGG			77	9
5794-14382	00000/0000	1-20080/0008	06/21/77	80	5015	5012N	08253W	47.0	112.0		GGG			23	25
5794-16273	00000/0000	1-20080/0009	06/21/77	50	5016	3019N	11539W	46.0	86.7		GGG			41	39
5795-16272	00000/0000	1-20080/0001	06/22/77	10	5030	5011N	11009W	46.9	111.9		GGG			42	25
5796-14492	00000/0000	1-20080/0002	06/23/77	20	5043	5138N	08506W	46.7	113.9		GGG			25	24
5796-14494	00000/0000	1-20080/0003	06/23/77	40	5043	5013N	08546W	46.9	111.9		FGG			25	25

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LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5796-16323	00000/0000	1-20080/0004	06/23/77	10	5044	5136N	11056W	46.7	113.8		GGG			43	24
5796-16330	00000/0000	1-20080/0005	06/23/77	20	5044	5011N	11135W	46.9	111.9		GGG			43	25
5797-16383	00000/0000	1-20080/0013	06/24/77	50	5058	5011N	11301W	46.8	111.8		GGG			44	25
5798-15010	00000/0000	1-20080/0012	06/25/77	40	5071	5011N	08837W	46.7	111.8		GGG			27	25
5798-16441	00000/0000	1-20080/0011	06/25/77	40	5072	5012N	11427W	46.7	111.8		GGG			45	25
5800-15194	00000/0000	1-20080/0010	06/27/77	10	5099	2429N	09959W	43.9	80.5		GGF			29	43
5800-20152	00000/0000	1-20080/0014	06/27/77	10	5102	7200N	14934W	39.1	148.4		GGG			84	9
5802-13404	00000/0000	1-20080/0015	06/29/77	50	5126	4848N	06909W	46.6	109.7		GGG			13	26
5802-15233	00000/0000	1-20080/0022	06/29/77	30	5127	5012N	09421W	46.4	111.6		GGG			31	25
5802-17062	00000/0000	1-20080/0016	06/29/77	70	5128	5138N	11931W	46.2	113.6		GGG			49	24
5802-17064	00000/0000	1-20080/0017	06/29/77	50	5128	5013N	12010W	46.4	111.6		GGG			49	25
5803-20285	00000/0000	1-20080/0037	06/30/77	40	5144	8017N	11718W	32.8	190.0		GG			71	248
5803-20292	00000/0000	1-20080/0032	06/30/77	30	5144	7934N	12438W	33.6	182.2		GGF			88	2
5803-20294	00000/0000	1-20080/0033	06/30/77	0	5144	7842N	13101W	34.4	175.3		GGG			88	3
5803-20301	00000/0000	1-20080/0038	06/30/77	0	5144	7744N	13628W	35.2	169.2		GG			87	4
5803-20303	00000/0000	1-20080/0039	06/30/77	0	5144	7641N	14105W	36.0	163.9		GF			87	5
5803-20310	00000/0000	1-20080/0034	06/30/77	10	5144	7535N	14501W	36.8	159.3		GGG			87	6
5803-20312	00000/0000	1-20080/0035	06/30/77	20	5144	7425N	14824W	37.5	155.1		GGG			87	7
5803-20315	00000/0000	1-20080/0036	06/30/77	10	5144	7313N	15121W	38.2	151.4		GGG			87	8
5805-15402	00000/0000	1-20080/0023	07/02/77	20	5169	5011N	09840W	46.2	111.6		FGG			34	25
5806-15454	00000/0000	1-20080/0020	07/03/77	10	5183	5136N	09927W	45.8	113.5		GGG			35	24
5806-15460	00000/0000	1-20080/0021	07/03/77	10	5183	5011N	10007W	46.1	111.6		GGG			35	25
5806-20455	00000/0000	1-20080/0024	07/03/77	70	5186	8018N	12124W	32.5	190.1		G			74	248
5806-20461	00000/0000	1-20080/0025	07/03/77	30	5186	7935N	12846W	33.4	182.2		GGG			91	2
5806-20464	00000/0000	1-20080/0026	07/03/77	50	5186	7844N	13508W	34.2	175.2		GGG			91	3
5806-20470	00000/0000	1-20080/0027	07/03/77	50	5186	7747N	14035W	35.0	169.1		GGF			90	4
5806-20473	00000/0000	1-20080/0028	07/03/77	60	5186	7645N	14513W	35.7	163.8		GGG			90	5
5806-20475	00000/0000	1-20080/0029	07/03/77	50	5186	7538N	14912W	36.5	159.2		GGG			90	6
5806-20482	00000/0000	1-20080/0030	07/03/77	20	5186	7428N	15236W	37.2	155.0		GGG			90	7
5806-20484	00000/0000	1-20080/0031	07/03/77	10	5186	7316N	15531W	38.0	151.3		GGG			90	8
5808-14134	00000/0000	1-20080/0018	07/05/77	50	5210	5137N	07630W	45.6	113.5		FGG			19	24
5808-14140	00000/0000	1-20080/0019	07/05/77	20	5210	5012N	07710W	45.8	111.6		GGG			19	25
5808-15565	00000/0000	1-20080/0043	07/05/77	90	5211	5134N	10220W	45.6	113.5		FFF			37	24
5811-16132	00000/0000	1-20080/0044	07/08/77	50	5253	5301N	10554W	45.0	115.5		GGG			40	23
5811-16135	00000/0000	1-20080/0045	07/08/77	40	5253	5137N	10635W	45.3	113.6		GGG			40	24
5811-16141	00000/0000	1-20080/0046	07/08/77	50	5253	5013N	10715W	45.5	111.7		GGG			40	25

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LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT.	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5811-21174	00000/0000	1-20080/0042	07/08/77	10	5256	7042N	16737W	38.8	144.5		GG			95	10
5811-21181	00000/0000	1-20080/0040	07/08/77	40	5256	6925N	16938W	39.4	141.7		GGG			95	11
5811-21183	00000/0000	1-20080/0041	07/08/77	30	5256	6808N	17125W	40.1	139.0		GFG			95	12
5812-16195	00000/0000	1-20080/0047	07/09/77	10	5267	5013N	10841W	45.3	111.8		GGG			41	25
5812-16254	00000/0000	1-20080/0048	07/09/77	40	5267	3018N	11538W	44.5	87.5		GGG			41	39
5817-15121	00000/0000	1-20080/0049	07/14/77	20	5336	2434N	09831W	42.5	82.5		GGG			28	43
5818-15102	00000/0000	1-20080/0050	07/15/77	10	5350	5015N	09129W	44.5	112.2		GGG			29	25
5818-15175	00000/0000	1-20080/0051	07/15/77	20	5350	2433N	09958W	42.4	82.6		GGG			29	43
5818-20133	00000/0000	1-20080/0053	07/15/77	0	5353	7200N	14938W	37.1	147.3		GGG			84	9
5820-13353	00000/0000	1-20080/0054	07/17/77	50	5377	6000N	06302W	41.9	125.6		GGG			14	18
5820-13355	00000/0000	1-20080/0055	07/17/77	50	5377	5837N	06358W	42.3	123.6		GGG			13	19
5820-13362	00000/0000	1-20080/0056	07/17/77	60	5377	5713N	06452W	42.7	121.6		GGG			13	20
5820-13364	00000/0000	1-20080/0057	07/17/77	80	5377	5548N	06542W	43.1	119.7		GGG			13	21
5820-13371	00000/0000	1-20080/0058	07/17/77	90	5377	5424N	06628W	43.4	117.9		GGG			13	22
5820-13373	00000/0000	1-20080/0059	07/17/77	50	5377	5300N	06711W	43.7	116.0		GGG			13	23
5820-13380	00000/0000	1-20080/0060	07/17/77	90	5377	5136N	06753W	44.0	114.2		GGG			13	24
5820-13382	00000/0000	1-20080/0061	07/17/77	90	5377	5012N	06833W	44.2	112.3		GGG			13	25
5820-13385	00000/0000	1-20080/0062	07/17/77	50	5377	4848N	06911W	44.4	110.5		GGG			13	26
5820-13441	00000/0000	1-20080/0063	07/17/77	20	5377	3017N	07528W	43.7	88.8		GGG			13	39
5820-13444	00000/0000	1-20080/0064	07/17/77	40	5377	2851N	07552W	43.4	87.3		GGG			13	40
5820-13450	00000/0000	1-20080/0065	07/17/77	40	5377	2725N	07615W	43.0	85.8		GGG			13	41
5820-15214	00000/0000	1-20080/0052	07/17/77	20	5378	5015N	09421W	44.2	112.4		GGG			31	25
5820-17043	00000/0000	1-20080/0066	07/17/77	70	5379	5138N	11929W	43.9	114.2		GG			49	24
5820-17045	00000/0000	1-20080/0067	07/17/77	40	5379	5012N	12009W	44.2	112.4		GG			49	25
5820-20212	00000/0000	1-20080/0069	07/17/77	90	5381	8017N	11556W	30.8	189.0		GGG			70	248
5820-20215	00000/0000	1-20080/0070	07/17/77	80	5381	7935N	12311W	31.6	181.1		GGG			87	2
5820-20221	00000/0000	1-20080/0071	07/17/77	90	5381	7844N	12930W	32.4	174.2		GGG			87	3
5820-20224	00000/0000	1-20080/0072	07/17/77	10	5381	7746N	13457W	33.1	168.2		GGG			86	4
5820-20230	00000/0000	1-20080/0073	07/17/77	10	5381	7643N	13936W	33.9	163.0		GGG			86	5
5820-20233	00000/0000	1-20080/0074	07/17/77	10	5381	7537N	14332W	34.6	158.3		GGG			86	6
5820-20235	00000/0000	1-20080/0075	07/17/77	10	5381	7427N	14655W	35.4	154.3		GGG			86	7
5820-20242	00000/0000	1-20080/0076	07/17/77	10	5381	7314N	14952W	36.1	150.6		GGG			86	8
5821-18482	00000/0000	1-20080/0068	07/18/77	60	5394	6805N	13413W	38.5	138.9		GGG			69	12
5823-15383	00000/0000	1-20081/0004	07/20/77	10	5420	5014N	09839W	43.7	112.7		GGG			34	25
5825-15492	00000/0000	1-20081/0001	07/22/77	90	5448	5137N	10052W	43.1	114.8		GGG			36	24
5825-15495	00000/0000	1-20081/0002	07/22/77	70	5448	5013N	10131W	43.3	113.0		GGG			36	25

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LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5826-15553	00000/0000	1-20081/0003	07/23/77	40	5462	5013N	10257W	43.2	113.1		GGG			37	25

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COORDINATE LISTING

05:39 OCT 22,'77

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
00305E	6008N	5756-09175	00000/0000	1-20079/0003	05/14/77	30	4482	41.1	131.9		FGG			218	18
00209E	5846N	5738-09200	00000/0000	1-20078/0006	04/26/77	40	4231	37.0	132.7		GGG			218	19
00207E	5846N	5756-09182	00000/0000	1-20079/0004	05/14/77	30	4482	41.7	130.0		GGG			218	19
00114E	5722N	5738-09202	00000/0000	1-20078/0007	04/26/77	70	4231	37.6	131.0		GGG			218	20
00024E	5557N	5738-09205	00000/0000	1-20078/0008	04/26/77	90	4231	38.2	129.4		GFG			218	21
00012W	5722N	5739-09260	00000/0000	1-20078/0012	04/27/77	50	4245	37.8	130.8		GGG			219	20
00022W	5433N	5738-09211	00000/0000	1-20078/0009	04/26/77	100	4231	38.8	127.7		FFG			218	22
00044W	5846N	5740-09311	00000/0000	1-20078/0016	04/28/77	60	4259	37.6	132.4		GGG			220	19
00101W	5556N	5739-09263	00000/0000	1-20078/0013	04/27/77	40	4245	38.5	129.2		FGG			219	21
00106W	5310N	5738-09214	00000/0000	1-20078/0010	04/26/77	90	4231	39.8	126.1		FGF			218	23
00138W	5722N	5740-09314	00000/0000	1-20078/0017	04/28/77	90	4259	38.2	130.7		GGG			220	20
00149W	5431N	5739-09265	00000/0000	1-20078/0014	04/27/77	40	4245	39.1	127.5		GGG			219	22
00228W	5559N	5740-09320	00000/0000	1-20078/0018	04/28/77	90	4259	38.8	129.1		GGG			220	21
00233W	5306N	5739-09272	00000/0000	1-20078/0015	04/27/77	30	4245	39.6	125.9		GGG			219	23
00316W	5435N	5740-09323	00000/0000	1-20078/0019	04/28/77	60	4259	39.4	127.4		GGG			220	22
00338W	5846N	5742-09423	00000/0000	1-20078/0021	04/30/77	30	4287	38.2	132.1		GGG			222	19
00359W	5311N	5740-09325	00000/0000	1-20078/0020	04/28/77	50	4259	39.0	125.8		GGG			220	23
00432W	5723N	5742-09430	00000/0000	1-20078/0022	04/30/77	50	4287	38.8	130.4		GGG			222	20
04654W	5020N	5466-12440	00000/0000	1-20072/0028	07/28/76	80	0440	46.8	123.0		GGGG			249	25
04654W	5015N	5520-12394	00000/0000	1-20073/0250	09/20/76	50	1193	32.4	137.0		G			249	25
04655W	5019N	5502-12411	00000/0000	1-20073/0016	09/02/76	80	0942	37.0	132.0		GGGG			249	25
04656W	5011N	5538-12381	00000/0000	1-20074/0107	10/08/76	100	1444	26.5	141.5		FGGG			249	25
04731W	4850N	5520-12400	00000/0000	1-20073/0251	09/20/76	50	1193	33.1	135.8		GFGF			249	26
04733W	4855N	5466-12443	00000/0000	1-20072/0029	07/28/76	90	0440	47.8	121.1		GGGG			249	26
04733W	4853N	5502-12413	00000/0000	1-20073/0017	09/02/76	80	0942	38.5	130.5		GGGG			249	26
04734W	4847N	5538-12383	00000/0000	1-20074/0108	10/08/76	100	1444	27.4	140.5		GGGG			249	26
04738W	5138N	5539-12432	00000/0000	1-20074/0118	10/09/76	90	1458	25.3	142.7		GGGG			250	24
04739W	5147N	5485-12475	00000/0000	1-20072/0157	08/16/76	90	0705	41.9	129.0		FGGG			250	24
04739W	5140N	5521-12445	00000/0000	1-20073/0242	09/21/76	100	1207	31.2	138.5		GGGG			250	24
04740W	5146N	5467-12492	00000/0000	1-20072/0016	07/29/76	20	0454	46.1	125.1		GGGG			250	24
04806W	4726N	5520-12403	00000/0000	1-20073/0252	09/20/76	80	1193	33.9	134.6		GGGF			249	27
04810W	4729N	5466-12445	00000/0000	1-20072/0030	07/28/76	100	0440	47.7	119.2		GGGF			249	27
04810W	4728N	5502-12420	00000/0000	1-20073/0018	09/02/76	80	0942	39.2	129.1		GGGG			249	27
04810W	4722N	5538-12390	00000/0000	1-20074/0109	10/08/76	90	1444	28.3	139.5		GGGG			249	27
04819W	5021N	5485-12481	00000/0000	1-20072/0158	08/16/76	90	0705	42.5	127.3		FGGG			250	25

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LANDSAT-1
COORDINATE LISTING
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PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
04819W	5020N	5503-12464	00000/0000	1-20073/0038	09/03/76	80	0956	37.6	132.3		GGGG			250	25
04819W	5013N	5539-12435	00000/0000	1-20074/0119	10/09/76	90	1458	26.2	141.7		GGGG			250	25
04820W	5015N	5521-12452	00000/0000	1-20073/0243	09/21/76	90	1207	32.6	137.3		GGFG			250	25
04822W	5020N	5467-12494	00000/0000	1-20072/0017	07/29/76	30	0454	46.6	123.2		GGGG			250	25
04823W	5303N	5540-12484	00000/0000	1-20074/0152	10/10/76	100	1472	24.0	143.9		GG			251	23
04841W	4601N	5520-12405	00000/0000	1-20073/0253	09/20/76	90	1193	34.3	133.4		GGGG			249	28
04844W	4557N	5538-12392	00000/0000	1-20074/0110	10/08/76	90	1444	29.1	138.5		FGGG			249	28
04845W	4604N	5466-12452	00000/0000	1-20072/0031	07/28/76	70	0440	48.3	117.3		GFGF			249	28
04845W	4602N	5502-12422	00000/0000	1-20073/0019	09/02/76	70	0942	39.8	127.7		GGGG			249	28
04856W	4856N	5485-12484	00000/0000	1-20072/0159	08/16/76	90	0705	43.6	125.7		GGGG			250	26
04858W	4851N	5521-12454	00000/0000	1-20073/0244	09/21/76	100	1207	32.8	136.1		GGGG			250	26
04858W	4848N	5539-12441	00000/0000	1-20074/0120	10/09/76	90	1458	27.2	140.7		GGGG			250	26
04859W	4853N	5503-12471	00000/0000	1-20073/0039	09/03/76	70	0956	38.2	130.9		GGGG			250	26
04900W	5148N	5486-12533	00000/0000	1-20072/0172	08/17/76	100	0719	41.6	129.2		GFFG			251	24
04901W	4854N	5467-12501	00000/0000	1-20072/0018	07/29/76	30	0454	47.1	121.3		GGGG			250	26
04903W	5142N	5522-12503	00000/0000	1-20073/0285	09/22/76	100	1221	30.8	138.8		GGGG			251	24
04904W	5143N	5504-12520	00000/0000	1-20073/0047	09/04/76	90	0970	36.6	134.0		GGGG			251	24
04904W	5139N	5540-12490	00000/0000	1-20074/0153	10/10/76	100	1472	25.0	142.9		GGGG			251	24
04908W	5427N	5541-12535	00000/0000	1-20074/0141	10/11/76	90	1486	22.8	145.1		GGGG			1	22
04910W	5150N	5468-12550	00000/0000	1-20072/0035	07/30/76	90	0468	45.8	125.3		GGGG			251	24
04914W	4436N	5520-12412	00000/0000	1-20073/0254	09/20/76	90	1193	35.4	132.2		FGGG			249	29
04917W	4437N	5502-12425	00000/0000	1-20073/0020	09/02/76	70	0942	40.8	126.2		GGGG			249	29
04917W	4432N	5538-12395	00000/0000	1-20074/0111	10/08/76	80	1444	30.0	137.5		GGGG			249	29
04918W	4439N	5466-12454	00000/0000	1-20072/0032	07/28/76	40	0440	48.4	115.4		GGGG			249	29
04932W	4732N	5485-12490	00000/0000	1-20072/0160	08/16/76	90	0705	43.6	124.0		GGGG			250	27
04935W	4726N	5521-12461	00000/0000	1-20073/0245	09/21/76	90	1207	33.6	134.9		GGGG			250	27
04935W	4723N	5539-12444	00000/0000	1-20074/0121	10/09/76	90	1458	27.8	139.7		GGGG			250	27
04936W	4727N	5503-12473	00000/0000	1-20073/0040	09/03/76	80	0956	38.9	129.4		GGGG			250	27
04937W	4729N	5467-12503	00000/0000	1-20072/0019	07/29/76	70	0454	47.5	119.4		GGGG			250	27
04940W	5023N	5486-12535	00000/0000	1-20072/0173	08/17/76	100	0719	42.2	127.6		GFGG			251	25
04942W	5017N	5522-12505	00000/0000	1-20073/0286	09/22/76	100	1221	31.2	137.6		FGGG			251	25
04944W	5018N	5504-12522	00000/0000	1-20073/0048	09/04/76	90	0970	37.8	132.6		GGGG			251	25
04944W	5014N	5540-12493	00000/0000	1-20074/0154	10/10/76	90	1472	25.8	141.9		GGGG			251	25
04945W	4310N	5520-12414	00000/0000	1-20073/0255	09/20/76	60	1193	36.1	131.0		GGGG			249	30
04948W	4311N	5502-12431	00000/0000	1-20073/0021	09/02/76	80	0942	41.0	124.8		GGGG			248	30

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
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MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
04949W	5306N	5505-12571	00000/0000	1-20073/0067	09/05/76	90	0984	35.5	135.6		GFGF			1	23
04949W	4306N	5538-12401	00000/0000	1-20074/0112	10/08/76	40	1444	30.8	136.5		GGGG			249	30
04950W	5025N	5468-12552	00000/0000	1-20072/0036	07/30/76	90	0468	46.4	123.4		FGGG			251	25
04950W	4314N	5466-12461	00000/0000	1-20072/0033	07/28/76	80	0440	48.8	113.5		GGGG			249	30
04951W	5308N	5487-12584	00000/0000	1-20072/0183	08/18/76	90	0733	40.8	131.0		GFGG			1	23
04951W	5302N	5541-12542	00000/0000	1-20074/0142	10/11/76	90	1486	23.7	144.1		GGGG			1	23
04952W	5307N	5469-13001	00000/0000	1-20072/0043	07/31/76	90	0482	45.2	127.2		GGGG			1	23
05006W	4607N	5485-12493	00000/0000	1-20072/0161	08/16/76	100	0705	44.1	122.3		GGGG			250	28
05009W	4600N	5521-12463	00000/0000	1-20073/0246	09/21/76	80	1207	34.4	133.8		GGGG			250	28
05010W	4604N	5467-12510	00000/0000	1-20072/0020	07/29/76	50	0454	47.5	117.5		GGGG			250	28
05010W	4558N	5539-12450	00000/0000	1-20074/0122	10/09/76	90	1458	28.8	138.7		GGGG			250	28
05011W	4602N	5503-12480	00000/0000	1-20073/0041	09/03/76	90	0956	39.5	128.0		GGGG			250	28
05016W	4145N	5520-12421	00000/0000	1-20073/0256	09/20/76	30	1193	36.8	129.8		GGGG			249	31
05019W	4858N	5486-12542	00000/0000	1-20072/0174	08/17/76	80	0719	42.8	126.0		GFGG			251	26
05019W	4145N	5502-12434	00000/0000	1-20073/0022	09/02/76	90	0942	41.5	123.3		GGGG			249	31
05020W	4148N	5466-12463	00000/0000	1-20072/0034	07/28/76	80	0440	49.0	111.6		GGGG			249	31
05020W	4141N	5538-12404	00000/0000	1-20074/0113	10/08/76	40	1444	31.6	135.5		GGGG			249	31
05021W	4854N	5504-12525	00000/0000	1-20073/0049	09/04/76	80	0970	37.9	131.2		GGGG			251	26
05021W	4852N	5522-12512	00000/0000	1-20073/0287	09/22/76	90	1221	32.5	136.4		FFGG			251	26
05022W	4849N	5540-12495	00000/0000	1-20074/0155	10/10/76	90	1472	26.7	140.9		GGGG			251	26
05028W	4857N	5468-12555	00000/0000	1-20072/0037	07/30/76	90	0468	46.9	121.5		GGFG			251	26
05030W	5143N	5505-12574	00000/0000	1-20073/0068	09/05/76	90	0984	36.2	134.2		GGGG			1	24
05032W	5426N	5524-13010	00000/0000	1-20073/0315	09/24/76	30	1249	28.6	141.6		FFGG			2	22
05032W	5143N	5487-12591	00000/0000	1-20072/0184	08/18/76	80	0733	41.4	129.4		GFGG			1	24
05032W	5138N	5541-12544	00000/0000	1-20074/0143	10/11/76	90	1486	24.6	143.1		GGGG			1	24
05033W	5427N	5542-12593	00000/0000	1-20074/0131	10/12/76	70	1500	22.4	145.2		GGGG			2	22
05033W	5137N	5523-12561	00000/0000	1-20073/0325	09/23/76	90	1235	30.6	139.0		GGGG			1	24
05034W	5143N	5469-13004	00000/0000	1-20072/0044	07/31/76	90	0482	45.7	125.4		GGGG			1	24
05040W	4442N	5485-12495	00000/0000	1-20072/0162	08/16/76	100	0705	44.5	120.7		GGGG			250	29
05042W	4435N	5521-12470	00000/0000	1-20073/0247	09/21/76	30	1207	35.3	132.6		GGGF			250	29
05043W	4440N	5467-12512	00000/0000	1-20072/0021	07/29/76	40	0454	48.3	115.6		GGGG			250	29
05044W	4437N	5503-12482	00000/0000	1-20073/0042	09/03/76	90	0956	40.1	126.6		GGGG			250	29
05044W	4433N	5539-12453	00000/0000	1-20074/0123	10/09/76	90	1458	29.8	137.8		GGGG			250	29
05055W	4733N	5486-12544	00000/0000	1-20072/0175	08/17/76	100	0719	43.3	124.3		GFGG			251	27
05057W	4729N	5504-12531	00000/0000	1-20073/0050	09/04/76	70	0970	38.6	129.8		GGGG			251	27

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ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05059W	4727N	5522-12514	00000/0000	1-20073/0288	09/22/76	90	1221	33.2	135.2		GGGG			251	27
05100W	4724N	5540-12502	00000/0000	1-20074/0156	10/10/76	90	1472	27.6	140.0		GGGG			251	27
05104W	4730N	5468-12561	00000/0000	1-20072/0038	07/30/76	90	0468	47.3	119.7		GGGG			251	27
05110W	5019N	5505-12580	00000/0000	1-20073/0069	09/05/76	90	0984	37.8	132.9		GFFF			1	25
05111W	5019N	5487-12593	00000/0000	1-20072/0185	08/18/76	70	0733	42.8	127.8		GFGF			1	25
05111W	5014N	5541-12551	00000/0000	1-20074/0144	10/11/76	60	1486	25.5	142.1		GGGG			1	25
05113W	5012N	5523-12563	00000/0000	1-20073/0326	09/23/76	90	1235	31.4	137.8		GGGG			1	25
05113W	4315N	5485-12502	00000/0000	1-20072/0163	08/16/76	90	0705	45.0	119.0		GGGG			250	30
05114W	5308N	5488-13042	00000/0000	1-20072/0194	08/19/76	40	0747	40.5	131.3		FGFF			2	23
05114W	5018N	5469-13010	00000/0000	1-20072/0045	07/31/76	90	0482	46.2	123.5		GGGG			1	25
05114W	4310N	5521-12472	00000/0000	1-20073/0248	09/21/76	50	1207	35.8	131.4		GGGG			250	30
05115W	4314N	5467-12515	00000/0000	1-20072/0022	07/29/76	40	0454	48.6	113.7		GGGG			250	30
05116W	4313N	5503-12485	00000/0000	1-20073/0043	09/03/76	90	0956	40.7	125.2		GGGG			250	30
05116W	4308N	5539-12456	00000/0000	1-20074/0124	10/09/76	80	1458	30.5	136.8		GGGG			250	30
05117W	5303N	5542-12595	00000/0000	1-20074/0132	10/12/76	70	1500	23.4	144.3		GGG			2	23
05117W	5302N	5524-13012	00000/0000	1-20073/0316	09/24/76	30	1249	29.4	140.4		GGGG			2	23
05118W	5307N	5470-13055	00000/0000	1-20072/0069	08/01/76	70	0496	45.0	127.4		GGGG			2	23
05130W	4608N	5486-12551	00000/0000	1-20072/0176	08/17/76	90	0719	43.8	122.7		GFGG			251	28
05133W	4603N	5504-12534	00000/0000	1-20073/0051	09/04/76	80	0970	39.2	128.4		GGGG			251	28
05134W	4602N	5522-12521	00000/0000	1-20073/0289	09/22/76	90	1221	34.0	134.1		FFFF			251	28
05136W	4559N	5540-12504	00000/0000	1-20074/0157	10/10/76	90	1472	28.5	139.0		GGGG			251	28
05138W	4603N	5468-12564	00000/0000	1-20072/0039	07/30/76	90	0468	47.7	117.8		GGGG			251	28
05144W	4149N	5485-12504	00000/0000	1-20072/0164	08/16/76	40	0705	45.4	117.3		GGGG			250	31
05145W	4144N	5521-12475	00000/0000	1-20073/0249	09/21/76	30	1207	36.5	130.2		GGFG			250	31
05146W	4854N	5505-12583	00000/0000	1-20073/0070	09/05/76	90	0984	37.7	131.5		GGGG			1	26
05146W	4148N	5467-12521	00000/0000	1-20072/0023	07/29/76	40	0454	48.8	111.8		GGGG			250	31
05146W	4147N	5503-12491	00000/0000	1-20073/0044	09/03/76	90	0956	41.3	123.7		GGGG			250	31
05146W	4142N	5539-12462	00000/0000	1-20074/0125	10/09/76	30	1458	31.3	135.8		GGGG			250	31
05148W	4850N	5541-12553	00000/0000	1-20074/0145	10/11/76	40	1486	26.4	141.2		GGGG			1	26
05149W	4855N	5487-13000	00000/0000	1-20072/0186	08/18/76	70	0733	42.6	126.2		GFGF			1	26
05152W	4847N	5523-12570	00000/0000	1-20073/0327	09/23/76	90	1235	32.8	136.7		GGGG			1	26
05153W	4853N	5469-13013	00000/0000	1-20072/0046	07/31/76	90	0482	46.7	121.7		GGGG			1	26
05155W	5144N	5488-13045	00000/0000	1-20072/0195	08/19/76	10	0747	41.1	129.7		FGGF			2	24
05156W	5144N	5506-13032	00000/0000	1-20073/0076	09/06/76	90	0998	35.9	134.5		GGGG			2	24
05157W	5433N	5489-13094	00000/0000	1-20072/0211	08/20/76	70	0761	39.5	133.1		GGGG			3	22

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ORIGINAL PAGE IS
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05:39 OCT 22,'77

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05159W	5428N	5543-13051	00000/0000	1-20074/0184	10/13/76	100	1514	22.1	145.4		FFGG			3	22
05159W	5143N	5470-13062	00000/0000	1-20072/0070	08/01/76	90	0496	45.5	125.6		GGGG			2	24
05159W	5139N	5542-13002	00000/0000	1-20074/0133	10/12/76	50	1500	24.8	143.3		GGG			2	24
05159W	5138N	5524-13015	00000/0000	1-20073/0317	09/24/76	10	1249	30.3	139.2		FGGG			2	24
05200W	5433N	5471-13111	00000/0000	1-20072/0058	08/02/76	70	0510	44.2	129.4		GGGG			3	22
05204W	4443N	5486-12553	00000/0000	1-20072/0177	08/17/76	80	0719	44.9	121.0		FFGG			251	29
05206W	4437N	5522-12523	00000/0000	1-20073/0290	09/22/76	90	1221	34.8	132.9		GGGG			251	29
05207W	4437N	5504-12540	00000/0000	1-20073/0052	09/04/76	90	0970	39.9	126.9		GGGG			251	29
05210W	4438N	5468-12570	00000/0000	1-20072/0040	07/30/76	80	0468	48.1	115.9		GGGG			251	29
05210W	4434N	5540-12511	00000/0000	1-20074/0158	10/10/76	90	1472	29.8	138.0		GGGG			251	29
05221W	4729N	5505-12585	00000/0000	1-20073/0071	09/05/76	90	0984	38.9	130.1		GGGG			1	27
05224W	4726N	5541-12560	00000/0000	1-20074/0146	10/11/76	80	1486	27.9	140.2		GGGG			1	27
05225W	4730N	5487-13002	00000/0000	1-20072/0187	08/18/76	60	0733	43.1	124.5		GFGF			1	27
05229W	4728N	5469-13015	00000/0000	1-20072/0047	07/31/76	40	0482	47.1	119.8		GGGG			1	27
05229W	4723N	5523-12572	00000/0000	1-20073/0328	09/23/76	90	1235	33.6	135.5		GGGG			1	27
05233W	5553N	5526-13115	00000/0000	1-20073/0274	09/26/76	70	1277	27.0	143.2		GGGG			4	21
05234W	5020N	5488-13051	00000/0000	1-20072/0196	08/19/76	30	0747	41.7	128.1		FGFF			2	25
05235W	5019N	5506-13034	00000/0000	1-20073/0077	09/06/76	100	0998	36.7	133.1		GGGG			2	25
05236W	4318N	5486-12560	00000/0000	1-20072/0178	08/17/76	30	0719	44.8	119.3		FFGF			251	30
05238W	5019N	5470-13064	00000/0000	1-20072/0071	08/01/76	90	0496	46.0	123.7		GGGG			2	25
05238W	4311N	5522-12530	00000/0000	1-20073/0291	09/22/76	90	1221	35.5	131.7		FGGG			251	30
05239W	5549N	5544-13102	00000/0000	1-20074/0200	10/14/76	100	1528	20.8	146.6		GGGG			4	21
05239W	5015N	5542-13004	00000/0000	1-20074/0134	10/12/76	50	1500	25.2	142.3		GGGG			2	25
05239W	5014N	5524-13021	00000/0000	1-20073/0318	09/24/76	10	1249	31.1	138.1		FGGG			2	25
05240W	5310N	5489-13100	00000/0000	1-20072/0212	08/20/76	90	0761	40.2	131.5		GGGG			3	23
05240W	4311N	5504-12543	00000/0000	1-20073/0053	09/04/76	90	0970	40.5	125.5		GGGG			251	30
05241W	5309N	5507-13083	00000/0000	1-20073/0089	09/07/76	100	1012	34.9	136.2		GGGG			3	23
05242W	5303N	5525-13070	00000/0000	1-20073/0265	09/25/76	10	1263	29.1	140.6		GFPF			3	23
05242W	4313N	5468-12573	00000/0000	1-20072/0041	07/30/76	60	0468	48.4	114.0		GGGG			251	30
05242W	4310N	5540-12513	00000/0000	1-20074/0159	10/10/76	80	1472	30.2	137.1		GGGG			251	30
05243W	5308N	5471-13113	00000/0000	1-20072/0059	08/02/76	70	0510	44.7	127.6		GGGG			3	23
05243W	5304N	5543-13053	00000/0000	1-20074/0185	10/13/76	90	1514	23.0	144.5		GGGG			3	23
05245W	5301N	5684-12530	00000/0000	1-20076/0029	03/03/77	30	3480	20.4	134.5		FGGG			3	23
05255W	4605N	5505-12592	00000/0000	1-20073/0072	09/05/76	90	0984	39.0	128.7		GGGG			1	28
05259W	4600N	5541-12562	00000/0000	1-20074/0147	10/11/76	90	1486	28.2	139.2		GGGG			1	28

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
C0ORDINATE LISTING
F0R N0N-US
FR0M 07/23/76 T0 07/23/77

PRINCIPAL P0INT 0F IMAGE LONG.	LAT	0BSERVATI0N ID	MICR0FILM P0SITI0N RBV	R0LL N0./ IN R0LL MSS	DATE ACQUIRED	CL0UD C0VER %	0RBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA M0DE	MSS IMAGE GAIN	0RBIT PATH NUM.	FRAME R0W NUM.
05300W	4604N	5487-13005	00000/0000	1-20072/0188	08/18/76	90	0733	43.6	122.9		FFGF			1	28
05304W	4602N	5469-13022	00000/0000	1-20072/0048	07/31/76	90	0482	47.5	117.9		GGGG			1	28
05304W	4559N	5523-12575	00000/0000	1-20073/0329	09/23/76	90	1235	33.8	134.3		GGGG			1	28
05307W	4151N	5486-12562	00000/0000	1-20072/0179	08/17/76	30	0719	45.2	117.7		FFGF			251	31
05309W	4145N	5522-12532	00000/0000	1-20073/0292	09/22/76	70	1221	36.2	130.5		GGGG			251	31
05311W	4146N	5504-12545	00000/0000	1-20073/0054	09/04/76	70	0970	41.0	124.1		GGGG			251	31
05312W	4855N	5488-13054	00000/0000	1-20072/0197	08/19/76	20	0747	42.9	126.5		FGGG			2	26
05312W	4149N	5468-12575	00000/0000	1-20072/0042	07/30/76	50	0468	48.7	112.1		GGGG			251	31
05313W	4854N	5506-13041	00000/0000	1-20073/0078	09/06/76	100	0998	37.4	131.8		GGGG			2	26
05313W	4145N	5540-12520	00000/0000	1-20074/0160	10/10/76	80	1472	31.0	136.1		GGGG			251	31
05317W	4850N	5542-13011	00000/0000	1-20074/0135	10/12/76	90	1500	26.1	141.4		GGGG			2	26
05317W	4849N	5524-13024	00000/0000	1-20073/0319	09/24/76	10	1249	31.9	136.9		FGGG			2	26
05318W	4853N	5470-13071	00000/0000	1-20072/0072	08/01/76	90	0496	46.5	121.9		GGFG			2	26
05320W	5429N	5526-13122	00000/0000	1-20073/0275	09/26/76	80	1277	27.8	142.0		GGGG			4	22
05321W	5146N	5489-13103	00000/0000	1-20072/0213	08/20/76	90	0761	40.8	129.9		GGGG			3	24
05323W	5433N	5490-13151	00000/0000	1-20072/0239	08/21/76	90	0775	39.2	133.4		GGGG			4	22
05323W	5433N	5508-13134	00000/0000	1-20073/0189	09/08/76	90	1026	33.8	137.8		GGGG			4	22
05323W	5145N	5507-13090	00000/0000	1-20073/0090	09/07/76	100	1012	35.6	134.8		GGGG			3	24
05323W	5143N	5471-13120	00000/0000	1-20072/0060	08/02/76	90	0510	46.8	125.8		GGGG			3	24
05325W	5425N	5544-13105	00000/0000	1-20074/0201	10/14/76	90	1528	21.8	145.6		GGGG			4	22
05325W	5140N	5543-13060	00000/0000	1-20074/0186	10/13/76	90	1514	23.9	143.5		FGGG			3	24
05325W	5139N	5525-13073	00000/0000	1-20073/0266	09/25/76	30	1263	29.8	139.5		FG G			3	24
05327W	5137N	5684-12533	00000/0000	1-20076/0030	03/03/77	20	3480	21.1	133.5		GGG			3	24
05329W	4439N	5505-12594	00000/0000	1-20073/0073	09/05/76	80	0984	39.6	127.3		GGGF			1	29
05334W	4438N	5487-13011	00000/0000	1-20072/0189	08/18/76	90	0733	44.1	121.3		GFFF			1	29
05334W	4435N	5541-12565	00000/0000	1-20074/0148	10/11/76	80	1486	29.0	138.3		GGGG			1	29
05337W	4437N	5469-13024	00000/0000	1-20072/0049	07/31/76	90	0482	47.8	116.1		GGGG			1	29
05337W	4435N	5523-12581	00000/0000	1-20073/0330	09/23/76	90	1235	34.5	133.2		GGGG			1	29
05348W	4730N	5488-13060	00000/0000	1-20072/0198	08/19/76	10	0747	42.9	124.8		FGGG			2	27
05350W	4729N	5506-13043	00000/0000	1-20073/0079	09/06/76	90	0998	38.0	130.4		GGGG			2	27
05354W	4725N	5542-13013	00000/0000	1-20074/0136	10/12/76	80	1500	27.6	140.4		GGGG			2	27
05354W	4724N	5524-13030	00000/0000	1-20073/0320	09/24/76	10	1249	32.7	135.8		FGGG			2	27
05355W	4727N	5470-13073	00000/0000	1-20072/0073	08/01/76	90	0496	46.8	120.0		GGGG			2	27
05358W	5554N	5527-13173	00000/0000	1-20074/0001	09/27/76	100	1291	26.6	143.4		GGFG			5	21
05400W	5021N	5489-13105	00000/0000	1-20072/0214	08/20/76	60	0761	41.8	128.4		GGGG			3	25

KEYS: CL0UD C0VER % ..... 0 T0 100 = % CL0UD C0VER.
IMAGE QUALITY ..... BLANKS=BAND N0T AVAILABLE, G=G00D, P=P00R, F=FAIR.
MSS DATA M0DE..... (BLANK)=C0MPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=L0W GAIN, H=HIGH GAIN

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05402W	5022N	5507-13092	00000/0000	1-20073/0091	09/07/76	100	1012	36.9	133.4		GGGG			3	25
05402W	5019N	5471-13122	00000/0000	1-20072/0061	08/02/76	80	0510	45.8	124.0		GGGG			3	25
05403W	5554N	5509-13190	00000/0000	1-20073/0127	09/09/76	80	1040	32.8	139.4		FGGF			5	21
05404W	5558N	5473-13220	00000/0000	1-20072/0089	08/04/76	60	0538	43.1	131.6		GFGG			5	21
05404W	5015N	5525-13075	00000/0000	1-20073/0267	09/25/76	80	1263	30.9	138.4		GGGG			3	25
05404W	4313N	5505-13001	00000/0000	1-20073/0074	09/05/76	50	0984	40.2	125.9		GFGF			1	30
05405W	5305N	5526-13124	00000/0000	1-20073/0276	09/26/76	20	1277	28.8	140.9		GGGG			4	23
05405W	5016N	5543-13062	00000/0000	1-20074/0187	10/13/76	80	1514	24.8	142.5		GGGG			3	25
05406W	5554N	5491-13203	00000/0000	1-20072/0227	08/22/76	60	0789	38.8	135.2		GFGG			5	21
05406W	4313N	5487-13014	00000/0000	1-20072/0190	08/18/76	90	0733	44.6	119.6		GFFF			1	30
05407W	5547N	5545-13160	00000/0000	1-20074/0219	10/15/76	100	1542	20.5	146.7		GGGG			5	21
05407W	5309N	5490-13154	00000/0000	1-20072/0240	08/21/76	80	0775	39.9	131.8		GGGG			4	23
05407W	5012N	5684-12535	00000/0000	1-20076/0031	03/03/77	10	3480	21.8	132.6		GGG			3	25
05407W	4310N	5541-12571	00000/0000	1-20074/0149	10/11/76	80	1486	29.5	137.3		GGGG			1	30
05408W	5310N	5472-13171	00000/0000	1-20072/0079	08/03/76	10	0524	44.5	127.8		GP F	L		4	23
05408W	5309N	5508-13141	00000/0000	1-20073/0190	09/08/76	100	1026	34.6	136.4		GGGG			4	23
05408W	4310N	5523-12584	00000/0000	1-20073/0331	09/23/76	80	1235	35.5	132.0		GGGG			1	30
05409W	4311N	5469-13031	00000/0000	1-20072/0050	07/31/76	90	0482	48.2	114.2		GGGG			1	30
05410W	5301N	5544-13111	00000/0000	1-20074/0202	10/14/76	90	1528	22.9	144.6		GGGG			4	23
05423W	4604N	5488-13063	00000/0000	1-20072/0199	08/19/76	20	0747	43.4	123.2		FGGG			2	28
05424W	4605N	5506-13050	00000/0000	1-20073/0080	09/06/76	50	0998	38.7	129.0		GGGG			2	28
05428W	4600N	5524-13033	00000/0000	1-20073/0321	09/24/76	30	1249	33.5	134.6		FGGG			2	28
05430W	4602N	5542-13020	00000/0000	1-20074/0137	10/12/76	70	1500	27.8	139.5		GGGG			2	28
05430W	4601N	5470-13080	00000/0000	1-20072/0074	08/01/76	100	0496	47.3	118.2		GGGG			2	28
05436W	4147N	5487-13020	00000/0000	1-20072/0191	08/18/76	80	0733	45.8	117.9		FFFF			1	31
05436W	4146N	5505-13003	00000/0000	1-20073/0075	09/05/76	40	0984	40.8	124.5		GFGF			1	31
05437W	4857N	5489-13112	00000/0000	1-20072/0215	08/20/76	10	0761	42.0	126.8		GGFG			3	26
05437W	4143N	5523-12590	00000/0000	1-20073/0332	09/23/76	80	1235	36.0	130.8		GGGG			1	31
05438W	4145N	5541-12574	00000/0000	1-20074/0150	10/11/76	90	1486	30.9	136.3		GGGG			1	31
05439W	4146N	5469-13033	00000/0000	1-20072/0051	07/31/76	70	0482	48.9	112.3		GGGG			1	31
05440W	4855N	5471-13125	00000/0000	1-20072/0062	08/02/76	70	0510	46.3	122.1		GGGG			3	26
05441W	5713N	5546-13212	00000/0000	1-20074/0230	10/16/76	90	1556	19.2	147.9		GGGG			6	20
05441W	4857N	5507-13095	00000/0000	1-20073/0092	09/07/76	100	1012	37.4	132.1		GGGG			3	26
05443W	4851N	5525-13082	00000/0000	1-20073/0268	09/25/76	70	1263	31.6	137.2		GFGG			3	26
05444W	4852N	5543-13065	00000/0000	1-20074/0188	10/13/76	40	1514	25.7	141.6		GGGG			3	26

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
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MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05445W	4847N	5684-12542	00000/0000	1-20076/0032	03/03/77	10	3480	22.5	131.7		GGG			3	26
05447W	5430N	5527-13180	00000/0000	1-20074/0002	09/27/76	50	1291	27.9	142.3		GGFG			5	22
05448W	5146N	5472-13173	00000/0000	1-20072/0080	08/03/76	20	0524	45.8	126.0		FPGG			4	24
05449W	5145N	5490-13160	00000/0000	1-20072/0241	08/21/76	20	0775	40.6	130.2		GGGG			4	24
05450W	5430N	5509-13192	00000/0000	1-20073/0128	09/09/76	90	1040	33.5	138.0		GFFG			5	22
05450W	5145N	5508-13143	00000/0000	1-20073/0191	09/08/76	90	1026	35.8	135.1		GGGG			4	24
05450W	5141N	5526-13131	00000/0000	1-20073/0277	09/26/76	40	1277	29.6	139.8		GGGG			4	24
05452W	5433N	5473-13222	00000/0000	1-20072/0090	08/04/76	80	0538	43.7	129.8		GFGG			5	22
05452W	5137N	5544-13114	00000/0000	1-20074/0203	10/14/76	90	1528	23.6	143.7		GGGG			4	24
05453W	5430N	5491-13205	00000/0000	1-20072/0228	08/22/76	40	0789	39.6	133.6		GFGF			5	22
05454W	5424N	5545-13163	00000/0000	1-20074/0220	10/15/76	100	1542	21.5	145.7		GGGG			5	22
05456W	4440N	5488-13065	00000/0000	1-20072/0200	08/19/76	70	0747	43.9	121.6		FFGG			2	29
05458W	4440N	5506-13052	00000/0000	1-20073/0081	09/06/76	30	0998	39.8	127.6		GGGG			2	29
05501W	4436N	5524-13035	00000/0000	1-20073/0322	09/24/76	70	1249	34.2	133.5		GGGG			2	29
05503W	4435N	5470-13082	00000/0000	1-20072/0075	08/01/76	70	0496	47.7	116.3		FFGG			2	29
05504W	4438N	5542-13022	00000/0000	1-20074/0138	10/12/76	50	1500	28.7	138.5		GGFF			2	29
05513W	4733N	5489-13114	00000/0000	1-20072/0216	08/20/76	10	0761	42.6	125.2		GGGG			3	27
05517W	4730N	5471-13131	00000/0000	1-20072/0063	08/02/76	80	0510	46.7	120.3		GGGG			3	27
05518W	4732N	5507-13101	00000/0000	1-20073/0093	09/07/76	100	1012	37.2	130.7		GGGG			3	27
05520W	4727N	5525-13084	00000/0000	1-20073/0269	09/25/76	60	1263	32.4	136.1		GGFG			3	27
05521W	4728N	5543-13071	00000/0000	1-20074/0189	10/13/76	50	1514	26.6	140.7		GFGG			3	27
05521W	4722N	5684-12544	00000/0000	1-20076/0033	03/03/77	20	3480	23.2	130.8		GGG			3	27
05526W	5557N	5510-13244	00000/0000	1-20073/0139	09/10/76	50	1054	32.4	139.6		G			6	21
05527W	5021N	5472-13180	00000/0000	1-20072/0081	08/03/76	10	0524	45.6	124.2		FPGG			4	25
05528W	4314N	5488-13072	00000/0000	1-20072/0201	08/19/76	90	0747	44.8	119.9		FGGG			2	30
05529W	5021N	5490-13163	00000/0000	1-20072/0242	08/21/76	30	0775	41.2	128.6		GGGG			4	25
05529W	5021N	5508-13150	00000/0000	1-20073/0192	09/08/76	50	1026	36.8	133.7		GGGG			4	25
05530W	5556N	5474-13274	00000/0000	1-20072/0108	08/05/76	0	0552	42.8	131.7		FFFF			6	21
05530W	5550N	5528-13231	00000/0000	1-20074/0041	09/28/76	90	1305	26.3	143.6		GGGG			6	21
05531W	5549N	5546-13214	00000/0000	1-20074/0231	10/16/76	90	1556	20.2	146.9		GGGG			6	21
05531W	5016N	5526-13133	00000/0000	1-20073/0278	09/26/76	40	1277	30.4	138.6		GGGG			4	25
05531W	4314N	5506-13055	00000/0000	1-20073/0082	09/06/76	30	0998	39.9	126.2		GGGG			2	30
05533W	5305N	5527-13182	00000/0000	1-20074/0003	09/27/76	60	1291	28.4	141.1		GGFG			5	23
05533W	5012N	5544-13120	00000/0000	1-20074/0204	10/14/76	60	1528	24.5	142.7		GGGG			4	25
05533W	4311N	5524-13042	00000/0000	1-20073/0323	09/24/76	80	1249	35.0	132.3		GGGF			2	30

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05534W	5306N	5509-13195	00000/0000	1-20073/0129	09/09/76	90	1040	34.8	136.7		GGGG			5	23
05535W	4311N	5470-13085	00000/0000	1-20072/0076	08/01/76	70	0496	48.8	114.5		GGGG			2	30
05536W	5308N	5473-13225	00000/0000	1-20072/0091	08/04/76	50	0538	44.3	128.0		FFGG			5	23
05536W	4313N	5542-13025	00000/0000	1-20074/0139	10/12/76	80	1500	29.5	137.6		GGFF			2	30
05537W	5307N	5491-13212	00000/0000	1-20072/0229	08/22/76	10	0789	39.8	132.0		FFGG			5	23
05538W	5259N	5545-13165	00000/0000	1-20074/0221	10/15/76	100	1542	22.4	144.8		GGGG			5	23
05549W	4608N	5489-13121	00000/0000	1-20072/0217	08/20/76	50	0761	43.1	123.5		GGGG			3	28
05553W	4606N	5507-13104	00000/0000	1-20073/0094	09/07/76	100	1012	38.4	129.4		GGGG			3	28
05553W	4604N	5471-13134	00000/0000	1-20072/0064	08/02/76	70	0510	47.1	118.4		GGGG			3	28
05554W	4602N	5525-13091	00000/0000	1-20073/0270	09/25/76	80	1263	33.1	135.0		GGFF			3	28
05555W	4557N	5684-12551	00000/0000	1-20076/0034	03/03/77	20	3480	23.9	129.9		GGG			3	28
05556W	4602N	5543-13074	00000/0000	1-20074/0190	10/13/76	80	1514	27.5	139.7		GGGG			3	28
05559W	4148N	5488-13074	00000/0000	1-20072/0202	08/19/76	90	0747	44.8	118.3		FFFF			2	31
05602W	4148N	5506-13061	00000/0000	1-20073/0083	09/06/76	40	0998	40.5	124.8		GGGG			2	31
05603W	4144N	5524-13044	00000/0000	1-20073/0324	09/24/76	90	1249	35.7	131.2		GGGG			2	31
05605W	5717N	5511-13295	00000/0000	1-20073/0114	09/11/76	90	1068	31.8	141.2		GGGF			7	20
05605W	4857N	5490-13165	00000/0000	1-20072/0243	08/21/76	20	0775	41.8	127.0		GGGG			4	26
05605W	4856N	5472-13182	00000/0000	1-20072/0082	08/03/76	10	0524	46.1	122.4		GPGG			4	26
05605W	4146N	5470-13091	00000/0000	1-20072/0077	08/01/76	90	0496	48.3	112.6		GGGG			2	31
05606W	5722N	5493-13312	00000/0000	1-20072/0274	08/24/76	90	0817	36.9	137.2		GGGG			7	20
05606W	5713N	5547-13270	00000/0000	1-20074/0244	10/17/76	100	1570	18.8	148.0		GGGG			7	20
05606W	4856N	5508-13152	00000/0000	1-20073/0193	09/08/76	60	1026	36.8	132.4		GGGG			4	26
05606W	4147N	5542-13031	00000/0000	1-20074/0140	10/12/76	80	1500	30.4	136.6		GGGG			2	31
05607W	5715N	5529-13282	00000/0000	1-20074/0070	09/29/76	70	1319	25.1	145.0		GGGG			7	20
05609W	4851N	5526-13140	00000/0000	1-20073/0279	09/26/76	20	1277	31.2	137.5		GGGG			4	26
05611W	4847N	5544-13123	00000/0000	1-20074/0205	10/14/76	90	1528	25.4	141.8		GGGG			4	26
05613W	5433N	5510-13250	00000/0000	1-20073/0140	09/10/76	100	1054	33.2	138.3		GGGG			6	22
05616W	5142N	5509-13201	00000/0000	1-20073/0130	09/09/76	90	1040	35.0	135.3		FGGG			5	24
05616W	5141N	5527-13185	00000/0000	1-20074/0004	09/27/76	90	1291	29.2	140.0		GGGG			5	24
05617W	5426N	5528-13234	00000/0000	1-20074/0042	09/28/76	100	1305	27.2	142.4		GGGG			6	22
05618W	5432N	5492-13263	00000/0000	1-20072/0251	08/23/76	90	0803	38.7	133.8		GGGG			6	22
05618W	5431N	5474-13280	00000/0000	1-20072/0109	08/05/76	20	0552	43.5	129.9		FFFF			6	22
05618W	5425N	5546-13221	00000/0000	1-20074/0232	10/16/76	100	1556	21.9	145.9		GGGG			6	22
05618W	5144N	5473-13231	00000/0000	1-20072/0092	08/04/76	10	0538	44.8	126.2		FFGG			5	24
05619W	5143N	5491-13214	00000/0000	1-20072/0230	08/22/76	20	0789	40.8	130.4		GFGG			5	24

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ORIGINAL PAGE IS
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LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05620W	5134N	5545-13172	00000/0000	1-20074/0222	10/15/76	100	1542	23.9	143.8		GGGG			5	24
05624W	4443N	5489-13123	00000/0000	1-20072/0218	08/20/76	100	0761	43.6	121.9		GGGG			3	29
05625W	4436N	5525-13093	00000/0000	1-20073/0271	09/25/76	80	1263	33.8	133.8		GGGG			3	29
05626W	4440N	5507-13110	00000/0000	1-20073/0095	09/07/76	90	1012	39.0	128.0		GGGG			3	29
05627W	4438N	5471-13140	00000/0000	1-20072/0065	08/02/76	80	0510	47.5	116.6		GGGG			3	29
05628W	4432N	5684-12553	00000/0000	1-20076/0035	03/03/77	30	3480	24.5	129.0		FGG			3	29
05629W	4437N	5543-13080	00000/0000	1-20074/0191	10/13/76	90	1514	28.4	138.8		FGGG			3	29
05641W	4731N	5508-13155	00000/0000	1-20073/0194	09/08/76	70	1026	37.8	131.0		GGGG			4	27
05642W	4733N	5490-13172	00000/0000	1-20072/0244	08/21/76	10	0775	42.3	125.5		FGGF			4	27
05642W	4731N	5472-13185	00000/0000	1-20072/0083	08/03/76	20	0524	46.5	120.5		GPGG			4	27
05644W	4727N	5526-13142	00000/0000	1-20073/0280	09/26/76	10	1277	32.6	136.4		GGGG			4	27
05647W	4723N	5544-13125	00000/0000	1-20074/0206	10/14/76	80	1528	26.9	140.9		GGGG			4	27
05655W	5554N	5511-13302	00000/0000	1-20073/0115	09/11/76	80	1068	32.2	139.8		GGGG			7	21
05655W	5017N	5509-13204	00000/0000	1-20073/0131	09/09/76	90	1040	35.8	134.0		GGGG			5	25
05656W	5559N	5493-13315	00000/0000	1-20072/0275	08/24/76	100	0817	37.7	135.6		GGGG			7	21
05656W	5551N	5529-13285	00000/0000	1-20074/0071	09/29/76	70	1319	26.8	143.8		GGGG			7	21
05656W	5549N	5547-13272	00000/0000	1-20074/0245	10/17/76	90	1570	19.8	147.0		GGGG			7	21
05656W	4318N	5489-13130	00000/0000	1-20072/0219	08/20/76	80	0761	44.2	120.3		GGGG			3	30
05656W	4310N	5525-13100	00000/0000	1-20073/0272	09/25/76	90	1263	34.7	132.7		FGGG			3	30
05658W	5309N	5510-13253	00000/0000	1-20073/0141	09/10/76	100	1054	33.9	136.9		GGGG			6	23
05658W	5019N	5473-13234	00000/0000	1-20072/0093	08/04/76	10	0538	45.3	124.4		GFGG			5	25
05658W	4314N	5507-13113	00000/0000	1-20073/0096	09/07/76	80	1012	39.7	126.6		GGGG			3	30
05659W	5019N	5491-13221	00000/0000	1-20072/0231	08/22/76	10	0789	40.8	128.9		FGGG			5	25
05700W	5303N	5528-13240	00000/0000	1-20074/0043	09/28/76	100	1305	28.2	141.3		GGGG			6	23
05700W	5010N	5545-13174	00000/0000	1-20074/0223	10/15/76	90	1542	24.2	142.9		GGGG			5	25
05700W	4313N	5471-13143	00000/0000	1-20072/0066	08/02/76	40	0510	47.8	114.7		FGGG			3	30
05700W	4311N	5543-13083	00000/0000	1-20074/0192	10/13/76	90	1514	29.2	137.8		GGGG			3	30
05700W	4307N	5684-12560	00000/0000	1-20076/0036	03/03/77	40	3480	25.2	128.1		GGG			3	30
05702W	5300N	5546-13223	00000/0000	1-20074/0233	10/16/76	90	1556	22.0	144.9		GGGG			6	23
05703W	5309N	5492-13270	00000/0000	1-20072/0252	08/23/76	90	0803	39.4	132.3		GGGG			6	23
05703W	5306N	5474-13283	00000/0000	1-20072/0110	08/05/76	50	0552	44.0	128.2		GFFG			6	23
05716W	4605N	5508-13161	00000/0000	1-20073/0195	09/08/76	60	1026	38.1	129.7		GGGG			4	28
05718W	4608N	5490-13174	00000/0000	1-20072/0245	08/21/76	60	0775	42.9	123.9		GGGG			4	28
05718W	4606N	5472-13191	00000/0000	1-20072/0084	08/03/76	80	0524	46.9	118.7		GPGG			4	28
05718W	4603N	5526-13145	00000/0000	1-20073/0281	09/26/76	10	1277	32.8	135.3		GGF			4	28

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PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05721W	4558N	5544-13132	00000/0000	1-20074/0207	10/14/76	50	1528	27.2	139.9		GGGG			4	28
05726W	4144N	5525-13102	00000/0000	1-20073/0273	09/25/76	90	1263	35.4	131.5		GGGG			3	31
05727W	4152N	5489-13132	00000/0000	1-20072/0220	08/20/76	60	0761	44.5	118.7		GGGG			3	31
05728W	4148N	5507-13115	00000/0000	1-20073/0097	09/07/76	80	1012	40.2	125.2		GGGG			3	31
05730W	5721N	5476-13383	00000/0000	1-20072/0124	08/07/76	70	0580	41.7	133.9		FGGG			8	20
05730W	4141N	5684-12562	00000/0000	1-20076/0037	03/03/77	50	3480	25.8	127.2		GGG			3	31
05731W	4147N	5471-13145	00000/0000	1-20072/0067	08/02/76	20	0510	48.1	112.9		FGGG			3	31
05731W	4146N	5543-13085	00000/0000	1-20074/0193	10/13/76	90	1514	30.2	136.9		GGGG			3	31
05732W	5722N	5494-13370	00000/0000	1-20072/0261	08/25/76	90	0831	36.6	137.5		GGGG			8	20
05732W	5718N	5512-13353	00000/0000	1-20073/0153	09/12/76	50	1082	30.9	141.4		FGGG			8	20
05733W	4852N	5509-13210	00000/0000	1-20073/0132	09/09/76	90	1040	36.5	132.7		FGGG			5	26
05734W	4855N	5473-13240	00000/0000	1-20072/0094	08/04/76	20	0538	45.8	122.6		FFGG			5	26
05734W	4851N	5527-13194	00000/0000	1-20074/0005	09/27/76	100	1291	30.9	137.8		GGGG			5	26
05735W	5711N	5548-13324	00000/0000	1-20074/0256	10/18/76	90	1584	18.5	148.1		GGGG			8	20
05737W	4845N	5545-13181	00000/0000	1-20074/0224	10/15/76	70	1542	25.1	142.0		GGGG			5	26
05738W	4854N	5491-13223	00000/0000	1-20072/0232	08/22/76	10	0789	41.5	127.3		GGGF			5	26
05741W	5145N	5510-13255	00000/0000	1-20073/0142	09/10/76	100	1054	34.9	135.6		FGGG			6	24
05742W	5427N	5529-13291	00000/0000	1-20074/0072	09/29/76	80	1319	26.8	142.7		GGGG			7	22
05742W	5426N	5547-13275	00000/0000	1-20074/0246	10/17/76	90	1570	20.8	146.1		GGGG			7	22
05742W	5139N	5528-13243	00000/0000	1-20074/0044	09/28/76	100	1305	28.9	140.2		GGGG			6	24
05743W	5434N	5493-13321	00000/0000	1-20072/0276	08/24/76	90	0817	38.4	134.1		GGGG			7	22
05743W	5430N	5511-13304	00000/0000	1-20073/0116	09/11/76	20	1068	32.9	138.5		PGGG			7	22
05745W	5141N	5474-13285	00000/0000	1-20072/0111	08/05/76	80	0552	44.6	126.4		GFFG			6	24
05745W	5135N	5546-13230	00000/0000	1-20074/0234	10/16/76	70	1556	23.0	144.0		GGGG			6	24
05746W	5146N	5492-13272	00000/0000	1-20072/0253	08/23/76	70	0803	40.8	130.7		GGGG			6	24
05751W	4440N	5508-13164	00000/0000	1-20073/0196	09/08/76	70	1026	38.8	128.3		GGGG			4	29
05752W	4440N	5472-13194	00000/0000	1-20072/0085	08/03/76	80	0524	47.3	116.9		GGGG			4	29
05752W	4437N	5526-13151	00000/0000	1-20073/0282	09/26/76	20	1277	33.6	134.1		FGGG			4	29
05754W	4443N	5490-13181	00000/0000	1-20072/0246	08/21/76	90	0775	43.4	122.3		GGGG			4	29
05754W	4433N	5544-13134	00000/0000	1-20074/0208	10/14/76	40	1528	28.1	139.0		GGGG			4	29
05800W	4016N	5684-12565	00000/0000	1-20076/0038	03/03/77	50	3480	26.4	126.3		GGG			3	32
05808W	4731N	5473-13243	00000/0000	1-20072/0095	08/04/76	40	0538	46.3	120.8		GFGG			5	27
05808W	4728N	5509-13213	00000/0000	1-20073/0133	09/09/76	70	1040	37.2	131.3		GGGG			5	27
05810W	4725N	5527-13200	00000/0000	1-20074/0006	09/27/76	90	1291	31.7	136.7		GGGG			5	27
05812W	4721N	5545-13183	00000/0000	1-20074/0225	10/15/76	60	1542	26.0	141.0		GGGG			5	27

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PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05814W	4730N	5491-13230	00000/0000	1-20072/0233	08/22/76	20	0789	42.1	125.7		GFGG			5	27
05821W	5018N	5510-13262	00000/0000	1-20073/0143	09/10/76	90	1054	35.6	134.3		GGFG			6	25
05822W	5556N	5476-13390	00000/0000	1-20072/0125	08/07/76	70	0580	42.9	132.1		FGGG			8	21
05822W	5554N	5512-13360	00000/0000	1-20073/0154	09/12/76	70	1082	31.8	140.1		GGFG			8	21
05822W	5015N	5528-13245	00000/0000	1-20074/0045	09/28/76	100	1305	29.8	139.1		GGGG			6	25
05823W	5558N	5494-13373	00000/0000	1-20072/0262	08/25/76	90	0831	37.6	135.9		GGGG			8	21
05823W	4314N	5508-13170	00000/0000	1-20073/0197	09/08/76	60	1026	39.4	127.0		GGGG			4	30
05824W	5547N	5548-13330	00000/0000	1-20074/0257	10/18/76	90	1584	19.5	147.1		GGGG			8	21
05824W	4315N	5472-13200	00000/0000	1-20072/0086	08/03/76	90	0524	47.6	115.0		GGGG			4	30
05824W	4310N	5526-13154	00000/0000	1-20073/0283	09/26/76	50	1277	34.8	133.0		GGGG			4	30
05825W	5017N	5474-13292	00000/0000	1-20072/0112	08/05/76	80	0552	45.1	124.6		FFGG			6	25
05825W	5010N	5546-13232	00000/0000	1-20074/0235	10/16/76	80	1556	23.9	143.1		GGGG			6	25
05825W	4308N	5544-13141	00000/0000	1-20074/0209	10/14/76	70	1528	29.0	138.1		GGGG			4	30
05826W	5303N	5529-13294	00000/0000	1-20074/0073	09/29/76	90	1319	27.7	141.6		GGGG			7	23
05826W	5301N	5547-13281	00000/0000	1-20074/0247	10/17/76	60	1570	21.7	145.1		GGGG			7	23
05826W	5022N	5492-13275	00000/0000	1-20072/0254	08/23/76	60	0803	40.9	129.2		GGGG			6	25
05827W	5305N	5511-13311	00000/0000	1-20073/0117	09/11/76	10	1068	33.6	137.1		GFGG			7	23
05827W	4317N	5490-13183	00000/0000	1-20072/0247	08/21/76	80	0775	43.2	120.6		GGGG			4	30
05828W	5309N	5493-13324	00000/0000	1-20072/0277	08/24/76	80	0817	39.1	132.5		GGGG			7	23
05829W	3850N	5684-12571	00000/0000	1-20076/0039	03/03/77	50	3480	27.9	125.4		GGG			3	33
05842W	4607N	5473-13245	00000/0000	1-20072/0096	08/04/76	40	0538	46.7	119.0		GFGG			5	28
05842W	4603N	5509-13215	00000/0000	1-20073/0134	09/09/76	70	1040	37.8	130.0		GGFG			5	28
05845W	4600N	5527-13203	00000/0000	1-20074/0007	09/27/76	90	1291	32.5	135.6		GGGG			5	28
05846W	4556N	5545-13190	00000/0000	1-20074/0226	10/15/76	60	1542	26.9	140.1		GGGG			5	28
05847W	4605N	5491-13232	00000/0000	1-20072/0234	08/22/76	20	0789	42.6	124.1		GFGG			5	28
05854W	4148N	5508-13173	00000/0000	1-20073/0198	09/08/76	50	1026	40.0	125.6		GGGG			4	31
05855W	4149N	5472-13203	00000/0000	1-20072/0087	08/03/76	90	0524	47.9	113.2		GGGG			4	31
05855W	4144N	5526-13160	00000/0000	1-20073/0284	09/26/76	80	1277	35.2	131.9		GGGG			4	31
05856W	4151N	5490-13190	00000/0000	1-20072/0248	08/21/76	50	0775	44.3	119.0		GGGF			4	31
05856W	4142N	5544-13143	00000/0000	1-20074/0210	10/14/76	80	1528	29.8	137.1		GGGG			4	31
05859W	4853N	5510-13264	00000/0000	1-20073/0144	09/10/76	70	1054	36.2	133.0		GGGG			6	26
05902W	4852N	5474-13294	00000/0000	1-20072/0113	08/05/76	40	0552	45.6	122.8		GFGG			6	26
05902W	4849N	5528-13252	00000/0000	1-20074/0046	09/28/76	100	1305	30.6	138.0		FGGG			6	26
05903W	4855N	5492-13281	00000/0000	1-20072/0255	08/23/76	40	0803	41.3	127.6		GGGG			6	26
05903W	4845N	5546-13235	00000/0000	1-20074/0236	10/16/76	70	1556	24.8	142.2		GGGG			6	26

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LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
05907W	5139N	5529-13300	00000/0000	1-20074/0074	09/29/76	50	1319	28.6	140.5		GGGG			7	24
05908W	5138N	5547-13284	00000/0000	1-20074/0248	10/17/76	50	1570	22.6	144.2		GGGG			7	24
05909W	5429N	5512-13362	00000/0000	1-20073/0155	09/12/76	70	1082	32.5	138.7		GGGG			8	22
05910W	5431N	5476-13392	00000/0000	1-20072/0126	08/07/76	60	0580	43.0	130.4		GGGG			8	22
05910W	5140N	5511-13313	00000/0000	1-20073/0118	09/11/76	0	1068	34.8	135.8		FGGG			7	24
05911W	5435N	5494-13375	00000/0000	1-20072/0263	08/25/76	90	0831	38.9	134.3		GGGG			8	22
05911W	5423N	5548-13333	00000/0000	1-20074/0258	10/18/76	90	1584	20.5	146.2		GGGG			8	22
05911W	5144N	5493-13330	00000/0000	1-20072/0278	08/24/76	70	0817	39.7	131.0		GGGG			7	24
05915W	4442N	5473-13252	00000/0000	1-20072/0097	08/04/76	50	0538	47.8	117.1		FFGF			5	29
05917W	4437N	5509-13222	00000/0000	1-20073/0135	09/09/76	60	1040	38.5	128.6		FGGG			5	29
05918W	4435N	5527-13205	00000/0000	1-20074/0008	09/27/76	100	1291	33.9	134.4		GGGG			5	29
05919W	4439N	5491-13235	00000/0000	1-20072/0235	08/22/76	40	0789	43.2	122.5		GGFG			5	29
05919W	4431N	5545-13192	00000/0000	1-20074/0227	10/15/76	50	1542	27.8	139.2		GGGG			5	29
05934W	4727N	5510-13271	00000/0000	1-20073/0145	09/10/76	70	1054	36.8	131.6		GGGG			6	27
05938W	4727N	5492-13284	00000/0000	1-20072/0256	08/23/76	40	0803	41.8	126.0		GGGG			6	27
05938W	4724N	5528-13254	00000/0000	1-20074/0047	09/28/76	100	1305	31.*	136.9		GGGG			6	27
05939W	4728N	5474-13301	00000/0000	1-20072/0114	08/05/76	20	0552	46.*	121.0		GFGF			6	27
05939W	4720N	5546-13241	00000/0000	1-20074/0237	10/16/76	90	1556	25.8	141.3		GGGG			6	27
05946W	5015N	5529-13303	00000/0000	1-20074/0075	09/29/76	50	1319	29.4	139.4		FGGG			7	25
05947W	5554N	5513-13414	00000/0000	1-20073/0167	09/13/76	100	1096	31.4	140.3		GGGG			9	21
05948W	5014N	5547-13290	00000/0000	1-20074/0249	10/17/76	80	1570	23.6	143.3		GGGG			7	25
05948W	4316N	5473-13254	00000/0000	1-20072/0098	08/04/76	50	0538	47.*	115.3		GFGG			5	30
05949W	4310N	5527-13212	00000/0000	1-20074/0009	09/27/76	100	1291	34.*	133.3		GGGG			5	30
05950W	5015N	5511-13320	00000/0000	1-20073/0119	09/11/76	10	1068	35.2	134.5		GGGG			7	25
05950W	4314N	5491-13241	00000/0000	1-20072/0236	08/22/76	60	0789	43.6	120.9		GGGG			6	30
05951W	5020N	5493-13333	00000/0000	1-20072/0279	08/24/76	20	0817	40.9	129.4		GGGG			7	25
05951W	4311N	5509-13224	00000/0000	1-20073/0136	09/09/76	50	1040	39.*	127.3		GFGG			5	30
05952W	5303N	5530-13352	00000/0000	1-20074/0054	09/30/76	80	1333	27.4	141.8		GGGG			8	23
05952W	4305N	5545-13195	00000/0000	1-20074/0228	10/15/76	50	1542	28.7	138.3		GGGG			5	30
05953W	5305N	5512-13365	00000/0000	1-20073/0156	09/12/76	80	1082	33.8	137.4		GGGG			8	23
05954W	5312N	5494-13382	00000/0000	1-20072/0264	08/25/76	80	0831	38.8	132.8		GGGG			8	23
05955W	5306N	5476-13395	00000/0000	1-20072/0127	08/07/76	40	0580	43.6	128.6		GGGG			8	23
05955W	5259N	5548-13335	00000/0000	1-20074/0259	10/18/76	90	1584	21.*	145.3		FGGG			8	23
06008W	4602N	5510-13273	00000/0000	1-20073/0146	09/10/76	50	1054	37.6	130.3		GGGG			6	28
06012W	4601N	5492-13290	00000/0000	1-20072/0257	08/23/76	50	0803	42.4	124.5		GGGG			6	28

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION IN ROLL RBV	ROLL NO./ MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
06012W	4559N	5528-13261	00000/0000	1-20074/0048	09/28/76	100	1305	32.2	135.8		GGGG			6	28
06013W	4602N	5474-13303	00000/0000	1-20072/0115	08/05/76	40	0552	46.5	119.2		FFFG			6	28
06013W	4556N	5546-13244	00000/0000	1-20074/0238	10/16/76	70	1556	26.5	140.4		GGGG			6	28
06018W	4144N	5668-13091	00000/0000	1-20075/0016	02/15/77	20	3257	20.5	130.8		FGGG			5	31
06019W	4144N	5527-13214	00000/0000	1-20074/0010	09/27/76	100	1291	34.8	132.2		GGGG			5	31
06020W	4149N	5473-13261	00000/0000	1-20072/0099	08/04/76	50	0538	47.8	113.5		GFFG			5	31
06020W	4147N	5491-13244	00000/0000	1-20072/0237	08/22/76	70	0789	44.1	119.3		GGGG			5	31
06023W	4850N	5529-13305	00000/0000	1-20074/0076	09/29/76	50	1319	30.8	138.3		FGGG			7	26
06024W	4140N	5545-13201	00000/0000	1-20074/0229	10/15/76	50	1542	29.5	137.4		GGGG			5	31
06026W	4849N	5547-13293	00000/0000	1-20074/0250	10/17/76	80	1570	24.5	142.4		GGGG			7	26
06027W	4851N	5511-13322	00000/0000	1-20073/0120	09/11/76	10	1068	35.5	133.2		GGG			7	26
06029W	4857N	5493-13335	00000/0000	1-20072/0280	08/24/76	20	0817	41.6	127.9		GGGG			7	26
06034W	5430N	5513-13420	00000/0000	1-20073/0168	09/13/76	100	1096	32.2	139.0		FGGG			9	22
06034W	5139N	5530-13354	00000/0000	1-20074/0055	09/30/76	40	1333	28.2	140.7		GGGG			8	24
06035W	5141N	5512-13371	00000/0000	1-20073/0157	09/12/76	90	1082	34.1	136.1		GGGG			8	24
06036W	5148N	5494-13384	00000/0000	1-20072/0265	08/25/76	50	0831	39.9	131.3		GGPG			8	24
06037W	5142N	5476-13401	00000/0000	1-20072/0128	08/07/76	20	0580	44.1	126.8		GGGG			8	24
06037W	5134N	5548-13342	00000/0000	1-20074/0260	10/18/76	90	1584	22.3	144.3		GFGG			8	24
06041W	4438N	5510-13280	00000/0000	1-20073/0147	09/10/76	50	1054	38.2	129.0		GGGG			6	29
06045W	4434N	5528-13263	00000/0000	1-20074/0049	09/28/76	100	1305	33.0	134.7		GGGG			6	29
06046W	4437N	5474-13310	00000/0000	1-20072/0116	08/05/76	60	0552	46.9	117.4		FFGG			6	29
06046W	4435N	5492-13293	00000/0000	1-20072/0258	08/23/76	30	0803	42.9	122.9		GGGG			6	29
06046W	4431N	5546-13250	00000/0000	1-20074/0239	10/16/76	50	1556	27.5	139.4		GGGG			6	29
06100W	4726N	5529-13312	00000/0000	1-20074/0077	09/29/76	60	1319	31.1	137.2		GGGG			7	27
06103W	4726N	5511-13325	00000/0000	1-20073/0121	09/11/76	10	1068	36.6	131.9		GGGG			7	27
06103W	4723N	5547-13295	00000/0000	1-20074/0251	10/17/76	90	1570	25.8	141.5		GGGG			7	27
06113W	5015N	5530-13361	00000/0000	1-20074/0056	09/30/76	40	1333	29.1	139.6		GGGG			8	25
06114W	4313N	5510-13282	00000/0000	1-20073/0148	09/10/76	50	1054	38.9	127.6		GGGG			6	30
06115W	5022N	5494-13391	00000/0000	1-20072/0266	08/25/76	0	0831	40.1	129.7		GGGG			8	25
06115W	5018N	5476-13404	00000/0000	1-20072/0129	08/07/76	10	0580	44.2	125.1		GGGG			8	25
06116W	5017N	5512-13374	00000/0000	1-20073/0158	09/12/76	90	1082	34.8	134.8		GGGG			8	25
06116W	4308N	5528-13270	00000/0000	1-20074/0050	09/28/76	100	1305	33.8	133.6		GGGG			6	30
06117W	5010N	5548-13344	00000/0000	1-20074/0261	10/18/76	100	1584	23.3	143.4		GGGG			8	25
06117W	4311N	5492-13295	00000/0000	1-20072/0259	08/23/76	40	0803	43.4	121.3		GGGG			6	30
06117W	4307N	5546-13253	00000/0000	1-20074/0240	10/16/76	30	1556	28.4	138.5		GGGG			6	30

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED. L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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OF POOR QUALITY

PRINCIPAL P8INT 8F IMAGE LONG	LAT	8BSERVATI8N ID	MICR8FILM P8SITI8N RBV	R8LL N8./ IN R8LL MSS	DATE ACQUIRED	CL8UD C8VER %	8RBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA M8DE	MSS IMAGE GAIN	8RBIT PATH NUM.	FRAME R8W NUM.
06118W	5306N	5513-13423	00000/0000	1-20073/0169	09/13/76	90	1096	33.0	137.7		GGGG			9	23
06118W	4312N	5474-13312	00000/0000	1-20072/0117	08/05/76	60	0552	47.8	115.5		GFFG			6	30
06135W	4601N	5529-13314	00000/0000	1-20074/0078	09/29/76	40	1319	31.8	136.1		GGGG			7	28
06136W	4601N	5511-13331	00000/0000	1-20073/0122	09/11/76	10	1068	37.3	130.6		GGGG			7	28
06137W	4603N	5493-13344	00000/0000	1-20072/0281	08/24/76	20	0817	42.5	124.8		GGGG			7	28
06137W	4558N	5547-13302	00000/0000	1-20074/0252	10/17/76	70	1570	26.3	140.6		GGGG			7	28
06145W	4147N	5510-13285	00000/0000	1-20073/0149	09/10/76	60	1054	39.5	126.3		GGGG			6	31
06146W	4147N	5492-13302	00000/0000	1-20072/0260	08/23/76	20	0803	43.9	119.7		GGGG			6	31
06147W	4141N	5528-13272	00000/0000	1-20074/0051	09/28/76	100	1305	34.5	132.5		GGGG			6	31
06148W	4147N	5474-13315	00000/0000	1-20072/0118	08/05/76	40	0552	47.6	113.7		GFGF			6	31
06148W	4141N	5546-13255	00000/0000	1-20074/0241	10/16/76	30	1556	29.2	137.6		GGGG			6	31
06150W	4851N	5530-13363	00000/0000	1-20074/0057	09/30/76	30	1333	29.8	138.6		GGGG			8	26
06152W	4854N	5476-13410	00000/0000	1-20072/0130	08/07/76	0	0580	45.2	123.3		GGGG			8	26
06153W	4856N	5494-13393	00000/0000	1-20072/0267	08/25/76	10	0831	40.7	128.2		FGGF			8	26
06153W	4852N	5512-13380	00000/0000	1-20073/0159	09/12/76	90	1082	35.6	133.5		GGGG			8	26
06155W	4846N	5548-13351	00000/0000	1-20074/0262	10/18/76	100	1584	24.2	142.5		FGGG			8	26
06200W	5142N	5513-13425	00000/0000	1-20073/0170	09/13/76	90	1096	33.8	136.4		GGGG			9	24
06201W	5147N	5495-13442	00000/0000	1-20072/0285	08/26/76	10	0845	39.2	131.6		GGGG			9	24
06208W	4434N	5529-13321	00000/0000	1-20074/0079	09/29/76	30	1319	32.7	135.0		GGGG			7	29
06209W	4436N	5511-13334	00000/0000	1-20073/0123	09/11/76	10	1068	38.0	129.3		GGGG			7	29
06210W	4436N	5493-13351	00000/0000	1-20072/0282	08/24/76	10	0817	42.3	123.2		GGGG			7	29
06210W	4432N	5547-13304	00000/0000	1-20074/0253	10/17/76	50	1570	27.2	139.7		GGGG			7	29
06225W	4726N	5530-13370	00000/0000	1-20074/0058	09/30/76	50	1333	30.8	137.5		GGGG			8	27
06228W	4726N	5512-13383	00000/0000	1-20073/0160	09/12/76	80	1082	36.3	132.2		GGGG			8	27
06229W	4730N	5476-13413	00000/0000	1-20072/0131	08/07/76	10	0580	45.6	121.5		GGGG			8	27
06230W	4731N	5494-13400	00000/0000	1-20072/0268	08/25/76	30	0831	41.3	126.7		GGGG			8	27
06232W	4721N	5548-13353	00000/0000	1-20074/0263	10/18/76	100	1584	25.1	141.7		FFGG			8	27
06240W	5017N	5513-13432	00000/0000	1-20073/0171	09/13/76	40	1096	34.5	135.1		GGGG			9	25
06240W	4310N	5511-13340	00000/0000	1-20073/0124	09/11/76	10	1068	38.6	128.0		PGGG			7	30
06241W	5022N	5495-13445	00000/0000	1-20072/0286	08/26/76	10	0845	39.8	130.0		GGGG			9	25
06241W	4308N	5529-13323	00000/0000	1-20074/0080	09/29/76	20	1319	33.5	133.9		GGGG			7	30
06242W	4312N	5493-13353	00000/0000	1-20072/0283	08/24/76	10	0817	43.2	121.7		GGGG			7	30
06242W	4308N	5547-13311	00000/0000	1-20074/0254	10/17/76	50	1570	28.6	138.8		GGGG			7	30
06259W	4600N	5530-13372	00000/0000	1-20074/0059	09/30/76	60	1333	31.6	136.4		GGGG			8	28
06301W	4602N	5512-13385	00000/0000	1-20073/0161	09/12/76	60	1082	37.0	130.9		GGGG			8	28

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OF POOR QUALITY

KEYS: CL8UD C8VER % ..... 0 T8 100 = % CL8UD C8VER,
IMAGE QUALITY ..... BLANKS=BAND N8T AVAILABLE. G=G88D, P=P88R. F=FAIR.
MSS DATA M8DE..... (BLANK)=C8MPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=L8W GAIN, H=HIGH GAIN

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
06302W	6000N	5820-13353	00000/0000	1-20080/0054	07/17/77	50	5377	41.9	125.6		GGG			14	18
06304W	4604N	5476-13415	00000/0000	1-20072/0132	08/07/76	50	0580	46.1	119.7		GGGG			8	28
06305W	4606N	5494-13402	00000/0000	1-20072/0269	08/25/76	90	0831	41.8	125.1		GGGG			8	28
06307W	4556N	5548-13360	00000/0000	1-20074/0264	10/18/76	100	1584	26.0	140.8		GGGG			8	28
06312W	4144N	5511-13343	00000/0000	1-20073/0125	09/11/76	10	1068	39.2	126.6		GGGG			7	31
06312W	4142N	5529-13330	00000/0000	1-20074/0081	09/29/76	40	1319	34.2	132.8		FGGG			7	31
06313W	4148N	5493-13360	00000/0000	1-20072/0284	08/24/76	10	0817	43.6	120.1		GGGG			7	31
06313W	4143N	5547-13313	00000/0000	1-20074/0255	10/17/76	60	1570	28.9	137.9		GGGG			7	31
06317W	4853N	5513-13434	00000/0000	1-20073/0172	09/13/76	50	1096	35.3	133.9		GGGG			9	26
06318W	4857N	5496-13451	00000/0000	1-20072/0287	08/26/76	0	0845	40.4	128.5		GGGG			9	26
06332W	4435N	5530-13375	00000/0000	1-20074/0060	09/30/76	10	1333	32.4	135.3		FGGG			8	29
06333W	4437N	5512-13392	00000/0000	1-20073/0162	09/12/76	60	1082	37.7	129.6		GGGG			8	29
06337W	4441N	5494-13405	00000/0000	1-20072/0270	08/25/76	10	0831	42.4	123.6		GGGG			8	29
06338W	4437N	5476-13422	00000/0000	1-20072/0133	08/07/76	60	0580	46.5	118.0		GGGG			8	29
06340W	4431N	5548-13362	00000/0000	1-20074/0265	10/18/76	100	1584	26.8	139.9		GGGG			8	29
06358W	5837N	5820-13355	00000/0000	1-20080/0055	07/17/77	50	5377	42.9	123.6		GGG			13	19
06405W	4312N	5512-13394	00000/0000	1-20073/0163	09/12/76	50	1082	38.3	128.3		GGGG			8	30
06405W	4310N	5530-13381	00000/0000	1-20074/0061	09/30/76	10	1333	33.2	134.2		GGGG			8	30
06407W	5019N	5496-13503	00000/0000	1-20072/0291	08/27/76	90	0859	39.5	130.3		FGGG			10	25
06408W	4316N	5494-13411	00000/0000	1-20072/0271	08/25/76	20	0831	42.9	122.0		GGFG			8	30
06410W	4312N	5476-13424	00000/0000	1-20072/0134	08/07/76	100	0580	46.8	116.2		GGGG			8	30
06412W	4306N	5548-13365	00000/0000	1-20074/0266	10/18/76	90	1584	27.8	139.0		GGGG			8	30
06435W	4146N	5512-13401	00000/0000	1-20073/0164	09/12/76	80	1082	39.0	127.0		GGGG			8	31
06437W	4145N	5530-13384	00000/0000	1-20074/0062	09/30/76	10	1333	33.8	133.1		GGGG			8	31
06438W	4149N	5494-13414	00000/0000	1-20072/0272	08/25/76	10	0831	43.4	120.5		GGGG			8	31
06441W	4146N	5476-13431	00000/0000	1-20072/0135	08/07/76	70	0580	47.2	114.4		GGGG			8	31
06442W	4141N	5548-13371	00000/0000	1-20074/0267	10/18/76	90	1584	28.6	138.1		GGFG			8	31
06444W	4854N	5496-13505	00000/0000	1-20072/0292	08/27/76	70	0859	40.2	128.8		FFGG			10	26
06450W	4856N	5763-13271	00000/0000	1-20079/0015	05/21/77	10	4582	46.6	115.4		GGG			10	26
06452W	5713N	5820-13362	00000/0000	1-20080/0056	07/17/77	60	5377	42.7	121.6		GGG			13	20
06500W	4441N	5495-13463	00000/0000	1-20072/0288	08/26/76	30	0845	42.2	123.9		GGGG			9	29
06502W	4437N	5513-13450	00000/0000	1-20073/0173	09/13/76	10	1096	37.4	130.0		GGFG			9	29
06533W	4314N	5495-13465	00000/0000	1-20072/0289	08/26/76	30	0845	42.7	122.4		GGGG			9	30
06534W	4312N	5513-13452	00000/0000	1-20073/0174	09/13/76	10	1096	38.0	128.7		GGGG			9	30
06536W	5017N	5461-13590	00000/0000	1-20072/0010	07/23/76	10	0371	47.8	122.1		GGGG			11	25

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G=GOOD, P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW-NUM.
06542W	5548N	5820-13364	00000/0000	1-20080/0057	07/17/77	80	5377	43.1	119.7		GGG			13	21
06604W	4148N	5495-13472	00000/0000	1-20072/0290	08/26/76	20	0845	43.2	120.8		GGGG			9	31
06604W	4147N	5513-13455	00000/0000	1-20073/0175	09/13/76	10	1096	38.7	127.4		GGGG			9	31
06606W	4851N	5656-13424	00000/0000	1-20075/0006	02/03/77	20	3090	14.0	136.8		GGGG			11	26
06610W	4850N	5533-13533	00000/0000	1-20074/0087	10/03/76	30	1375	29.0	139.3		FGGG			11	26
06614W	4852N	5461-13593	00000/0000	1-20072/0011	07/23/76	10	0371	48.2	120.2		FGGG			11	26
06619W	5137N	5534-13582	00000/0000	1-20074/0090	10/04/76	60	1389	26.9	141.6		G GG			12	24
06628W	5424N	5820-13371	00000/0000	1-20080/0058	07/17/77	90	5377	43.4	117.9		GGG			13	22
06659W	5013N	5534-13585	00000/0000	1-20074/0091	10/04/76	10	1389	27.8	140.6		G GF			12	25
06711W	5300N	5820-13373	00000/0000	1-20080/0059	07/17/77	50	5377	43.7	116.0		GGG			13	23
06730W	4147N	5496-13530	00000/0000	1-20072/0293	08/27/76	80	0859	42.9	121.2		FFGG			10	31
06732W	4144N	5514-13513	00000/0000	1-20073/0201	09/14/76	10	1110	38.5	127.7		FGGG			10	31
06735W	4146N	5763-13292	00000/0000	1-20079/0016	05/21/77	10	4582	47.6	106.2		GGG			10	31
06737W	4849N	5534-13591	00000/0000	1-20074/0092	10/04/76	10	1389	28.3	139.5		G GG			12	26
06738W	4855N	5480-14034	00000/0000	1-20072/0147	08/11/76	10	0636	44.2	124.3		GGGG			12	26
06741W	4853N	5765-13383	00000/0000	1-20079/0019	05/23/77	20	4610	46.2	114.9		GGG			12	26
06753W	5136N	5820-13380	00000/0000	1-20080/0060	07/17/77	90	5377	44.8	114.2		GGG			13	24
06801W	4018N	5514-13515	00000/0000	1-20073/0202	09/14/76	20	1110	39.1	126.4		GGGG			10	32
06806W	4021N	5763-13294	00000/0000	1-20079/0017	05/21/77	10	4582	47.1	104.4		GGG			10	32
06830W	3853N	5514-13522	00000/0000	1-20073/0203	09/14/76	20	1110	39.6	125.1		GGGG			10	33
06833W	5012N	5820-13382	00000/0000	1-20080/0061	07/17/77	90	5377	44.2	112.3		GGG			13	25
06834W	3855N	5763-13301	00000/0000	1-20079/0018	05/21/77	10	4582	47.1	102.6		GGG			10	33
06903W	4852N	5535-14045	00000/0000	1-20074/0105	10/05/76	20	1403	28.9	139.8		GGGG			13	26
06909W	4848N	5802-13404	00000/0000	1-20080/0015	06/29/77	50	5126	46.6	109.7		GGG			13	26
06911W	4848N	5820-13385	00000/0000	1-20080/0062	07/17/77	50	5377	44.4	110.5		GGG			13	26
06953W	5020N	5482-14143	00000/0000	1-20072/0155	08/13/76	90	0664	43.2	126.5		GGGG			14	25
06953W	5018N	5518-14113	00000/0000	1-20073/0223	09/18/76	20	1166	33.0	136.5		FGGG			14	25
07024W	5712N	5680-14123	00000/0000	1-20076/0006	02/27/77	80	3425	16.7	138.0		GGGG			17	20
07029W	3731N	5764-13361	00000/0000	1-20079/0007	05/22/77	20	4596	47.2	100.5		GGG			11	34
07031W	4855N	5482-14150	00000/0000	1-20072/0156	08/13/76	90	0664	43.8	124.8		GGGG			14	26
07031W	4853N	5518-14120	00000/0000	1-20073/0224	09/18/76	30	1166	33.3	135.3		FGGG			14	26
07031W	4848N	5536-14103	00000/0000	1-20074/0106	10/06/76	50	1417	28.0	140.0		GGGG			14	26
07034W	4859N	5464-14163	00000/0000	1-20072/0025	07/26/76	40	0413	47.2	120.8		GGGG			14	26
07055W	3605N	5764-13364	00000/0000	1-20079/0008	05/22/77	20	4596	47.2	98.7		GGG			11	35
07114W	5549N	5680-14125	00000/0000	1-20076/0007	02/27/77	90	3425	17.5	137.0		GGGG			17	21

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LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
07121W	3439N	5764-13370	00000/0000	1-20079/0009	05/22/77	40	4596	47.1	96.9		GGG			11	36
07200W	5426N	5680-14132	00000/0000	1-20076/0008	02/27/77	90	3425	18.2	136.0		GGGG			17	22
07200W	4854N	5768-13553	00000/0000	1-20079/0014	05/26/77	10	4652	46.6	114.3		GGG			15	26
07238W	5021N	5502-14242	00000/0000	1-20073/0023	09/02/76	70	0943	37.8	132.0		GGGG			16	25
07243W	3438N	5480-14075	00000/0000	1-20072/0148	08/11/76	20	0636	47.9	106.8		FGGG			12	36
07243W	3434N	5534-14032	00000/0000	1-20074/0093	10/04/76	30	1389	36.6	128.9		FGGG			12	36
07245W	5302N	5680-14134	00000/0000	1-20076/0009	02/27/77	100	3425	19.0	135.1		GGGG			17	23
07246W	3438N	5765-13424	00000/0000	1-20079/0020	05/23/77	30	4610	47.2	96.6		GGG			12	36
07308W	3308N	5534-14035	00000/0000	1-20074/0094	10/04/76	20	1389	37.1	127.8		FGGG			12	37
07311W	3313N	5765-13431	00000/0000	1-20079/0021	05/23/77	30	4610	47.1	94.9		GGG			12	37
07317W	4856N	5502-14245	00000/0000	1-20073/0024	09/02/76	70	0943	38.5	130.6		GGGG			16	26
07327W	5137N	5680-14141	00000/0000	1-20076/0010	02/27/77	100	3425	19.7	134.2		GGGG			17	24
07328W	4851N	5769-14011	00000/0000	1-20079/0023	05/27/77	10	4666	46.7	114.0		GGG			16	26
07328W	4849N	5787-13592	00000/0000	1-20079/0035	06/14/77	80	4917	47.4	110.9		GGG			16	26
07333W	3142N	5534-14041	00000/0000	1-20074/0095	10/04/76	20	1389	37.8	126.6		GGGG			12	38
07337W	3148N	5765-13433	00000/0000	1-20079/0022	05/23/77	60	4610	46.9	93.2		GGG			12	38
07407W	5017N	5503-14300	00000/0000	1-20073/0045	09/03/76	70	0957	37.5	132.3		GGGG			17	25
07407W	5013N	5680-14143	00000/0000	1-20076/0011	02/27/77	90	3425	20.4	133.3		GGGG			17	25
07445W	4852N	5503-14303	00000/0000	1-20073/0046	09/03/76	90	0957	38.2	130.9		GGGG			17	26
07450W	4854N	5467-14332	00000/0000	1-20072/0024	07/29/76	10	0455	47.1	121.3		GGGG			17	26
07452W	4855N	5752-14083	00000/0000	1-20078/0028	05/10/77	30	4429	44.2	118.0		FGG			17	26
07455W	5145N	5486-14364	00000/0000	1-20072/0180	08/17/76	10	0720	41.6	129.2		FGGG			18	24
07456W	4854N	5770-14065	00000/0000	1-20079/0024	05/28/77	20	4680	46.8	113.9		GGG			17	26
07528W	3017N	5820-13441	00000/0000	1-20080/0063	07/17/77	20	5377	43.7	88.8		GGG			13	39
07535W	5021N	5486-14371	00000/0000	1-20072/0181	08/17/76	30	0720	42.2	127.6		FFGG			18	25
07552W	2851N	5820-13444	00000/0000	1-20080/0064	07/17/77	40	5377	43.6	87.3		GGG			13	40
07615W	2725N	5820-13450	00000/0000	1-20080/0065	07/17/77	40	5377	43.0	85.8		GGG			13	41
07630W	5137N	5808-14134	00000/0000	1-20080/0018	07/05/77	50	5210	45.6	113.5		FGG			19	24
07637W	2602N	5463-14173	00000/0000	1-20072/0012	07/25/76	20	0399	49.3	89.9		GGGG		H	13	42
07702W	5012N	5541-14382	00000/0000	1-20074/0151	10/11/76	50	1487	25.5	142.1		GGGG			18	25
07710W	5012N	5808-14140	00000/0000	1-20080/0019	07/05/77	20	5210	45.8	111.6		GGG			19	25
07747W	5142N	5488-14480	00000/0000	1-20072/0203	08/19/76	90	0748	41.1	129.7		GGGF			20	24
07802W	2559N	5518-14184	00000/0000	1-20073/0225	09/18/76	40	1166	43.1	114.3		FGGG			14	42
07803W	2607N	5464-14231	00000/0000	1-20072/0026	07/26/76	30	0413	49.8	90.2		GGGG			14	42
07825W	2439N	5464-14233	00000/0000	1-20072/0027	07/26/76	30	0413	49.0	88.4		GGGG			14	43

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FOR NON-US
FROM 07/23/76 TO 07/23/77

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PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
07825W	2434N	5518-14190	00000/0000	1-20073/0226	09/18/76	80	1166	43.5	112.9		FGGG			14	43
07827W	5018N	5488-14483	00000/0000	1-20072/0204	08/19/76	80	0748	41.7	128.1		GGGF			20	25
07830W	5020N	5470-14500	00000/0000	1-20072/0078	08/01/76	90	0497	46.0	123.8		GGGG			20	25
07954W	5021N	5471-14554	00000/0000	1-20072/0068	08/02/76	90	0511	45.8	124.0		GGGG			21	25
08041W	5146N	5490-14592	00000/0000	1-20072/0249	08/21/76	10	0776	40.5	130.2		GGGG			22	24
08118W	5019N	5508-14582	00000/0000	1-20073/0199	09/08/76	0	1027	36.0	133.7		GGGG			22	25
08120W	5019N	5472-15012	00000/0000	1-20072/0088	08/03/76	10	0525	45.6	124.2		GGGG			22	25
08120W	5019N	5490-14595	00000/0000	1-20072/0250	08/21/76	0	0776	41.2	128.6		GGGG			22	25
08245W	5556N	5475-15163	00000/0000	1-20072/0119	08/06/76	60	0567	42.6	131.9		GGGG			25	21
08247W	5022N	5491-15052	00000/0000	1-20072/0238	08/22/76	20	0790	40.8	128.9		GGGG			23	25
08249W	5019N	5473-15065	00000/0000	1-20072/0100	08/04/76	90	0539	45.3	124.4		GFGG			23	25
08253W	5012N	5794-14382	00000/0000	1-20080/0008	06/21/77	80	5015	47.0	112.0		GGG			23	25
08333W	5430N	5475-15170	00000/0000	1-20072/0120	08/06/76	30	0567	43.2	130.1		GGGG			25	22
08418W	5304N	5475-15172	00000/0000	1-20072/0121	08/06/76	0	0567	43.8	128.4		GFGG			25	23
08500W	5140N	5475-15175	00000/0000	1-20072/0122	08/06/76	0	0567	44.4	126.6		GGGG			25	24
08500W	5138N	5529-15132	00000/0000	1-20074/0082	09/29/76	80	1320	28.6	140.5		GGGG			25	24
08506W	5138N	5796-14492	00000/0000	1-20080/0002	06/23/77	20	5043	46.7	113.9		GGG			25	24
08539W	5013N	5529-15135	00000/0000	1-20074/0083	09/29/76	90	1320	29.4	139.4		GGGG			25	25
08540W	5021N	5511-15151	00000/0000	1-20073/0126	09/11/76	0	1069	35.1	134.6		GGG			25	25
08540W	5016N	5475-15181	00000/0000	1-20072/0123	08/06/76	10	0567	44.9	124.8		GGGG			25	25
08544W	5019N	5778-14513	00000/0000	1-20079/0029	06/05/77	80	4792	47.0	114.2		GGG			25	25
08546W	5013N	5796-14494	00000/0000	1-20080/0003	06/23/77	40	5043	46.9	111.9		FGG			25	25
08623W	5145N	5476-15233	00000/0000	1-20072/0136	08/07/76	10	0581	44.1	126.8		GGGG			26	24
08625W	5432N	5513-15252	00000/0000	1-20073/0176	09/13/76	90	1097	32.2	139.0		GGGG			27	22
08626W	5142N	5512-15203	00000/0000	1-20073/0165	09/12/76	90	1083	34.1	136.1		GGGG			26	24
08703W	5018N	5494-15222	00000/0000	1-20072/0273	08/25/76	10	0832	40.1	129.7		GGGG			26	25
08704W	5020N	5476-15235	00000/0000	1-20072/0137	08/07/76	0	0581	44.7	125.1		GGGG			26	25
08707W	5018N	5512-15205	00000/0000	1-20073/0166	09/12/76	60	1083	34.8	134.8		GGGG			26	25
08707W	5017N	5530-15192	00000/0000	1-20074/0063	09/30/76	60	1334	29.1	139.6		GGGG			26	25
08710W	5308N	5513-15254	00000/0000	1-20073/0177	09/13/76	100	1097	33.0	137.7		GGGG			27	23
08753W	5144N	5513-15261	00000/0000	1-20073/0178	09/13/76	100	1097	33.7	136.4		GGGG			27	24
08829W	5022N	5477-15293	00000/0000	1-20072/0140	08/08/76	50	0595	44.4	125.3		GGG			27	25
08832W	5019N	5513-15263	00000/0000	1-20073/0179	09/13/76	100	1097	34.5	135.1		GGGG			27	25
08835W	5308N	5478-15342	00000/0000	1-20072/0007	08/09/76	10	0609	43.0	129.1		GGG			28	23
08837W	5011N	5798-15010	00000/0000	1-20080/0012	06/25/77	40	5071	46.7	111.8		GGG			27	25

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LANDSAT-1
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FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
08915W	5145N	5496-15332	00000/0000	1-20072/0294	08/27/76	90	0860	38.8	131.8		FGGG			28	24
08916W	5138N	5532-15302	00000/0000	1-20074/0084	10/02/76	0	1362	27.6	141.2		FGGG			28	24
08917W	5144N	5478-15345	00000/0000	1-20072/0008	08/09/76	10	0609	43.6	127.3		GGGG			28	24
08955W	5020N	5496-15334	00000/0000	1-20072/0295	08/27/76	60	0860	39.5	130.3		FGGG			28	25
08956W	5021N	5478-15351	00000/0000	1-20072/0009	08/09/76	10	0609	44.2	125.6		GGGG			28	25
08956W	5014N	5532-15304	00000/0000	1-20074/0085	10/02/76	0	1362	28.4	140.1		GGGG			28	25
09004W	5012N	5781-15083	00000/0000	1-20079/0032	06/08/77	60	4834	47.1	113.6		GGG			28	25
09041W	5139N	5533-15360	00000/0000	1-20074/0088	10/03/76	80	1376	27.2	141.4		GGGG			29	24
09044W	5138N	5515-15373	00000/0000	1-20073/0218	09/15/76	70	1125	33.1	136.9		GGGG			29	24
09051W	5136N	5782-15134	00000/0000	1-20079/0033	06/09/77	60	3848	46.9	115.4		GGG			29	24
09121W	5015N	5533-15362	00000/0000	1-20074/0089	10/03/76	80	1376	28.1	140.4		GGGG			29	25
09123W	5014N	5515-15375	00000/0000	1-20073/0219	09/15/76	80	1125	33.9	135.7		GGGG			29	25
09124W	5019N	5461-15422	00000/0000	1-20071/0265	07/23/76	30	0372	47.8	122.2		GGGG			29	25
09129W	5015N	5818-15102	00000/0000	1-20080/0050	07/15/77	10	5350	44.5	112.2		GGG			29	25
09131W	5012N	5782-15140	00000/0000	1-20079/0034	06/09/77	60	3848	47.2	113.5		GGG			29	25
09209W	5137N	5534-15414	00000/0000	1-20074/0096	10/04/76	60	1390	26.9	141.6		GGGG			30	24
09248W	5012N	5534-15420	00000/0000	1-20074/0097	10/04/76	60	1390	27.8	140.6		GGGG			30	25
09251W	5017N	5462-15480	00000/0000	1-20071/0266	07/24/76	60	0386	47.6	122.3		GGGG			30	25
09412W	5020N	5499-15504	00000/0000	1-20073/0008	08/30/76	70	0902	38.3	131.2		GGGG			31	25
09419W	5959N	5680-15545	00000/0000	1-20076/0001	02/27/77	30	3426	15.3	140.1		GGGG			35	18
09421W	5015N	5820-15214	00000/0000	1-20080/0052	07/17/77	20	5378	44.2	112.4		GGG			31	25
09421W	5012N	5802-15233	00000/0000	1-20080/0022	06/29/77	30	5127	46.4	111.6		GGG			31	25
09423W	5011N	5784-15252	00000/0000	00000/0000	06/11/77		4876	47.2	113.2		GFG			31	25
09501W	5140N	5518-15542	00000/0000	1-20073/0232	09/18/76	40	1167	32.2	137.7		GGGG			32	24
09517W	5837N	5680-15552	00000/0000	1-20076/0002	02/27/77	10	3426	16.0	139.0		GGGG			35	19
09519W	5844N	5485-16122	00000/0000	1-20072/0165	08/16/76	90	0707	38.5	137.3		GGGF			35	19
09539W	5022N	5500-15562	00000/0000	1-20073/0012	08/31/76	30	0916	38.4	131.5		FGGG			32	25
09540W	5558N	5484-16073	00000/0000	1-20072/0150	08/15/76	10	0693	40.2	133.7		FGGG			34	21
09541W	5022N	5482-15575	00000/0000	1-20072/0149	08/13/76	80	0665	43.2	126.6		GG			32	25
09541W	5015N	5518-15545	00000/0000	1-20073/0233	09/18/76	30	1167	32.9	136.5		GGGG			32	25
09554W	2308N	5530-15272	00000/0000	1-20074/0064	09/30/76	80	1334	41.8	117.3		GGGG			26	44
09557W	2306N	5512-15285	00000/0000	1-20073/0150	09/12/76	30	1083	44.6	108.3		GFGG			26	44
09611W	5713N	5680-15554	00000/0000	1-20076/0003	02/27/77	10	3426	16.8	137.9		GGGG			35	20
09612W	5721N	5485-16124	00000/0000	1-20072/0166	08/16/76	20	0707	39.2	135.6		GGG			35	20
09616W	2141N	5530-15274	00000/0000	1-20074/0065	09/30/76	90	1334	42.3	116.0		FGFF			26	45

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR,
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LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
09620W	2139N	5512-15291	00000/0000	1-20073/0151	09/12/76	20	1083	44.8	106.8		GGGG			26	45
09627W	5433N	5484-16075	00000/0000	1-20072/0151	08/15/76	30	0693	40.8	132.0		GFGG			34	22
09639W	2015N	5530-15281	00000/0000	1-20074/0066	09/30/76	60	1334	42.3	114.6		GGFF			26	46
09642W	2012N	5512-15294	00000/0000	1-20073/0152	09/12/76	30	1083	44.9	105.3		GGFG			26	46
09702W	5557N	5485-16131	00000/0000	1-20072/0167	08/16/76	10	0707	39.8	133.9		GGG			35	21
09702W	5549N	5680-15561	00000/0000	1-20076/0004	02/27/77	40	3426	17.5	137.0		GGGG			35	21
09711W	5308N	5484-16082	00000/0000	1-20072/0152	08/15/76	30	0693	41.5	130.4		GGGG			34	23
09723W	2307N	5513-15343	00000/0000	1-20073/0183	09/13/76	30	1097	44.4	108.9		GGGG			27	44
09745W	2140N	5513-15345	00000/0000	1-20073/0184	09/13/76	40	1097	44.6	107.3		GGGG			27	45
09749W	5424N	5680-15563	00000/0000	1-20076/0005	02/27/77	30	3426	18.3	136.0		GGGG			35	22
09750W	5433N	5485-16133	00000/0000	1-20072/0168	08/16/76	10	0707	40.6	132.3		GGGG			35	22
09753W	5144N	5484-16084	00000/0000	1-20072/0153	08/15/76	10	0693	42.1	128.7		GGGG			34	24
09808W	2013N	5513-15352	00000/0000	1-20073/0185	09/13/76	30	1097	44.8	105.8		FGGG			27	46
09825W	2433N	5532-15381	00000/0000	1-20074/0102	10/02/76	20	1362	41.0	119.6		FGGG			28	43
09827W	2435N	5514-15394	00000/0000	1-20073/0210	09/14/76	30	1111	44.0	110.9		FGGG			28	43
09828W	2434N	5673-15255	00000/0000	1-20075/0017	02/20/77	90	3328	29.5	119.7		GGGG			28	43
09829W	2436N	5478-15424	00000/0000	1-20072/0143	08/09/76	10	0609	47.8	93.6		GGFG			28	43
09831W	2434N	5817-15121	00000/0000	1-20080/0049	07/14/77	20	5336	42.5	82.5		GGG			28	43
09832W	5019N	5484-16091	00000/0000	1-20072/0154	08/15/76	10	0693	42.7	127.1		GGGG			34	25
09832W	5018N	5502-16074	00000/0000	1-20073/0025	09/02/76	10	0944	37.8	132.0		GGGG			34	25
09834W	5300N	5680-15570	00000/0000	1-20076/0012	02/27/77	30	3426	19.0	135.1		PPFF			35	23
09835W	5308N	5485-16140	00000/0000	1-20072/0169	08/16/76	0	0707	41.2	130.6		GFGG			35	23
09835W	2431N	5781-15160	00000/0000	1-20079/0031	06/08/77	0	4834	45.1	81.5		GGG			28	43
09839W	5014N	5823-15383	00000/0000	1-20081/0004	07/20/77	10	5420	43.7	112.7		GGG			34	25
09840W	5011N	5805-15402	00000/0000	1-20080/0023	07/02/77	20	5169	46.2	111.6		FGG			34	25
09850W	2308N	5514-15401	00000/0000	1-20073/0211	09/14/76	40	1111	44.3	109.4		FGGG			28	44
09850W	2308N	5673-15261	00000/0000	1-20075/0018	02/20/77	90	3328	30.0	118.8		FFFF			28	44
09911W	2142N	5673-15264	00000/0000	1-20075/0019	02/20/77	70	3328	30.5	117.9		GGGG			28	45
09912W	2141N	5514-15403	00000/0000	1-20073/0212	09/14/76	60	1111	44.5	107.9		GGGF			28	45
09916W	5135N	5680-15572	00000/0000	1-20076/0013	02/27/77	40	3426	19.9	134.2		GGGG			35	24
09918W	5144N	5485-16142	00000/0000	1-20072/0170	08/16/76	10	0707	41.9	129.0		GGGG			35	24
09927W	5136N	5806-15454	00000/0000	1-20080/0020	07/03/77	10	5183	45.8	113.5		GGG			35	24
09933W	2015N	5673-15270	00000/0000	1-20075/0020	02/20/77	10	3328	30.9	117.0		GGGG			28	46
09935W	2015N	5514-15410	00000/0000	1-20073/0213	09/14/76	40	1111	44.3	106.4		GGGG			28	46
09954W	2436N	5479-15482	00000/0000	1-20072/0146	08/10/76	10	0623	47.8	94.0		GGGG			29	43

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PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
09954W	2436N	5674-15312	00000/0000	1-20075/0022	02/21/77	80	3342	29.7	119.3		GGGG			29	43
09954W	2435N	5515-15452	00000/0000	1-20073/0204	09/15/76	70	1125	43.9	111.4		GGGG			29	43
09955W	5011N	5680-15575	00000/0000	1-20076/0014	02/27/77	60	3426	20.8	133.3		FGGG			35	25
09955W	1848N	5673-15273	00000/0000	1-20075/0021	02/20/77	10	3328	31.9	116.0		GGGG			28	47
09956W	5019N	5503-16132	00000/0000	1-20073/0032	09/03/76	10	0958	37.5	132.3		FGGG			35	25
09956W	1849N	5514-15412	00000/0000	1-20073/0214	09/14/76	40	1111	44.9	104.8		GGGG			28	47
09957W	5557N	5736-16023	00000/0000	1-20078/0001	04/24/77	20	4207	37.8	129.6		GGG			37	21
09957W	2435N	5764-15231	00000/0000	1-20079/0005	05/22/77	50	4597	45.9	85.3		GGG			29	43
09958W	2433N	5818-15175	00000/0000	1-20080/0051	07/15/77	20	5350	42.4	82.6		GGG			29	43
09959W	5019N	5485-16145	00000/0000	1-20072/0171	08/16/76	60	0707	42.5	127.3		FGGG			35	25
09959W	2430N	5782-15213	00000/0000	1-20079/0036	06/09/77	20	4848	45.1	81.4		GGG			29	43
09959W	2429N	5800-15194	00000/0000	1-20080/0010	06/27/77	10	5099	43.9	80.5		GGF			29	43
10000W	5014N	5539-16102	00000/0000	1-20074/0117	10/09/76	30	1460	26.1	141.7		GGGF			35	25
10007W	5011N	5806-15460	00000/0000	1-20080/0021	07/03/77	10	5183	46.1	111.6		GGG			35	25
10017W	2308N	5515-15455	00000/0000	1-20073/0205	09/15/76	70	1125	44.2	109.9		GGGG			29	44
10017W	1723N	5514-15415	00000/0000	1-20073/0215	09/14/76	50	1111	45.0	103.3		GGGG			28	48
10040W	2142N	5515-15461	00000/0000	1-20073/0206	09/15/76	80	1125	44.4	108.4		GGGG			29	45
10045W	5432N	5736-16030	00000/0000	1-20078/0002	04/24/77	30	4207	38.8	128.0		GGG			37	22
10046W	5425N	5541-16202	00000/0000	1-20074/0127	10/11/76	0	1488	22.7	145.1		GGFG			37	22
10052W	5137N	5825-15492	00000/0000	1-20081/0001	07/22/77	90	5448	43.1	114.8		GGG			36	24
10102W	2015N	5515-15464	00000/0000	1-20073/0207	09/15/76	50	1125	44.6	106.9		GGGG			29	46
10118W	2435N	5516-15510	00000/0000	1-20073/0298	09/16/76	70	1139	43.7	111.9		GGGG			30	43
10119W	2432N	5657-15384	00000/0000	1-20075/0007	02/04/77	30	3105	26.5	124.6		GGGG			30	43
10122W	5021N	5486-16202	00000/0000	1-20072/0182	08/17/76	70	0721	42.2	127.6		FFGG			34	25
10123W	1848N	5515-15470	00000/0000	1-20073/0208	09/15/76	90	1125	44.8	105.3		GGGG			29	47
10124W	5014N	5540-16160	00000/0000	1-20074/0126	10/10/76	20	1474	25.8	142.0		GGGG			36	25
10130W	5301N	5541-16205	00000/0000	1-20074/0128	10/11/76	10	1488	23.7	144.1		GGGG			37	23
10131W	5309N	5736-16032	00000/0000	1-20078/0003	04/24/77	10	4207	38.8	126.4		GGG			37	23
10131W	5013N	5825-15495	00000/0000	1-20081/0002	07/22/77	70	5448	43.3	113.0		GGG			36	25
10133W	5013N	5789-15533	00000/0000	1-20079/0040	06/16/77	50	4946	47.2	112.5		GGG			36	25
10134W	7539N	5542-18024	00000/0000	1-20074/0161	10/12/76	80	1503	6.7	172.6		FGGG			56	6
10141W	2308N	5516-15513	00000/0000	1-20073/0299	09/16/76	70	1139	44.8	110.4		GGGG			30	44
10141W	2306N	5657-15390	00000/0000	1-20075/0008	02/04/77	30	3105	27.1	123.9		GGGG			30	44
10144W	1721N	5515-15473	00000/0000	1-20073/0209	09/15/76	70	1125	44.9	103.8		GGGG			29	48
10159W	5719N	5489-16352	00000/0000	1-20072/0205	08/20/76	60	0763	38.1	136.4		FGGG			39	20

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LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
10200W	5713N	5543-16305	00000/0000	1-20074/0194	10/13/76	40	1516	20.2	147.5		GGGG			39	20
10201W	5723N	5471-16365	00000/0000	1-20072/0052	08/02/76	10	0512	42.8	133.2		FGGG			39	20
10202W	2139N	5657-15393	00000/0000	1-20075/0009	02/04/77	10	3105	27.7	123.1		GGGG			30	45
10204W	2142N	5516-15515	00000/0000	1-20073/0300	09/16/76	80	1139	44.8	108.9		GGGG			30	45
10212W	5136N	5541-16211	00000/0000	1-20074/0129	10/11/76	10	1488	24.6	143.1		GGGG			37	24
10214W	5145N	5736-16035	00000/0000	1-20078/0004	04/24/77	0	4207	39.6	124.8		GGG			37	24
10220W	5134N	5808-15565	00000/0000	1-20080/0043	07/05/77	90	5211	45.6	113.5		FFF			37	24
10224W	2012N	5657-15395	00000/0000	1-20075/0010	02/04/77	0	3105	28.8	122.3		GGGG			30	46
10226W	2015N	5516-15522	00000/0000	1-20073/0301	09/16/76	80	1139	44.5	107.4		GGGG			30	46
10246W	1846N	5657-15402	00000/0000	1-20075/0011	02/04/77	0	3105	28.8	121.4		GGGG			30	47
10248W	5555N	5489-16354	00000/0000	1-20072/0206	08/20/76	70	0763	38.8	134.8		FGGG			39	21
10248W	5554N	5526-16324	00000/0000	1-20074/0025	09/25/76	90	1265	27.3	143.0		GGGG			39	21
10248W	1848N	5516-15524	00000/0000	1-20073/0302	09/16/76	80	1139	44.7	105.9		GGFG			30	47
10250W	5550N	5543-16312	00000/0000	1-20074/0195	10/13/76	70	1516	21.1	146.4		GGGG			39	21
10251W	5012N	5541-16214	00000/0000	1-20074/0130	10/11/76	20	1488	25.5	142.1		GGGG			37	25
10252W	5559N	5471-16371	00000/0000	1-20072/0053	08/02/76	10	0512	43.5	131.3		FGGG			39	21
10255W	5021N	5736-16041	00000/0000	1-20078/0005	04/24/77	0	4207	39.9	123.3		GFG			37	25
10257W	5013N	5826-15553	00000/0000	1-20081/0003	07/23/77	40	5462	43.2	113.1		GGG			37	25
10300W	5012N	5790-15591	00000/0000	1-20079/0041	06/17/77	30	4960	47.1	112.4		G			37	25
10306W	1719N	5657-15404	00000/0000	1-20075/0012	02/04/77	10	3105	29.4	120.6		FGGG			30	48
10323W	5719N	5508-16393	00000/0000	1-20073/0098	09/08/76	70	1028	32.2	140.6		GGGG			40	20
10324W	5717N	5526-16380	00000/0000	1-20074/0016	09/26/76	10	1279	26.1	144.4		GGGG			40	20
10325W	5719N	5490-16410	00000/0000	1-20072/0221	08/21/76	90	0777	37.8	136.6		GGGG			40	20
10327W	5710N	5544-16363	00000/0000	1-20074/0178	10/14/76	90	1530	19.9	147.6		FGFG			40	20
10327W	1553N	5657-15411	00000/0000	1-20075/0013	02/04/77	20	3105	29.9	119.8		GGGG			30	49
10335W	5431N	5489-16361	00000/0000	1-20072/0207	08/20/76	90	0763	39.5	133.1		GGGG			39	22
10336W	5430N	5525-16331	00000/0000	1-20074/0026	09/25/76	80	1265	28.2	141.8		GGGG			39	22
10336W	5141N	5488-16312	00000/0000	1-20072/0192	08/19/76	10	0749	41.1	129.7		GGGG			38	24
10337W	5426N	5543-16314	00000/0000	1-20074/0196	10/13/76	100	1516	22.2	145.4		GGGG			39	22
10339W	5435N	5471-16374	00000/0000	1-20072/0054	08/02/76	10	0512	44.2	129.5		FGGG			39	22
10348W	2600N	5518-16015	00000/0000	1-20073/0234	09/18/76	90	1167	43.2	114.3		GGGG			32	42
10355W	5836N	5545-16414	00000/0000	1-20074/0211	10/15/76	90	1544	18.5	148.8		GGGG			41	19
10410W	2433N	5518-16022	00000/0000	1-20073/0235	09/18/76	70	1167	43.4	112.9		GGGG			32	43
10414W	5555N	5508-16395	00000/0000	1-20073/0099	09/08/76	70	1028	33.0	139.2		GGGG			40	21
10414W	5554N	5526-16382	00000/0000	1-20074/0017	09/26/76	10	1279	27.0	143.2		GGGG			40	21

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LANDSAT-1
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PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
10415W	5555N	5490-16412	00000/0000	1-20072/0222	08/21/76	90	0777	38.5	135.0		FGGG			40	21
10416W	5017N	5488-16314	00000/0000	1-20072/0193	08/19/76	10	0749	41.7	128.1		GGGG			38	25
10417W	5547N	5544-16370	00000/0000	1-20074/0179	10/14/76	100	1530	20.8	146.6		FGGF			40	21
10419W	5305N	5525-16333	00000/0000	1-20074/0027	09/25/76	60	1265	29.0	140.7		GGGG			39	23
10420W	5307N	5489-16363	00000/0000	1-20072/0208	08/20/76	90	0763	40.2	131.5		GGFG			39	23
10421W	5302N	5543-16321	00000/0000	1-20074/0197	10/13/76	100	1516	23.0	144.5		GGGG			39	23
10423W	5311N	5471-16380	00000/0000	1-20072/0055	08/02/76	30	0512	44.7	127.7		FGGG			39	23
10423W	5017N	5755-16081	00000/0000	1-20079/0006	05/13/77	0	4472	44.4	119.0		GGG			38	25
10433W	2307N	5518-16024	00000/0000	1-20073/0236	09/18/76	90	1167	43.8	111.4		GGGG			32	44
10449W	5720N	5491-16464	00000/0000	1-20073/0001	08/22/76	30	0791	37.5	136.8		FGGG			41	20
10449W	5713N	5545-16421	00000/0000	1-20074/0212	10/15/76	90	1544	19.5	147.7		GGGG			41	20
10450W	5715N	5527-16434	00000/0000	1-20074/0033	09/27/76	40	1293	25.7	144.6		GGGG			41	20
10452W	5720N	5473-16481	00000/0000	1-20072/0101	08/04/76	0	0540	42.4	133.4		FGFG			41	20
10452W	5717N	5509-16451	00000/0000	1-20073/0106	09/09/76	10	1042	31.9	140.7		GGGF			41	20
10456W	2140N	5518-16031	00000/0000	1-20073/0237	09/18/76	90	1167	44.6	109.9		GGGG			32	45
10501W	7430N	5542-18030	00000/0000	1-20074/0162	10/12/76	30	1503	7.7	169.3		GGFF			56	7
10501W	5431N	5508-16402	00000/0000	1-20073/0100	09/08/76	70	1028	33.8	137.8		GGGG			40	22
10501W	5429N	5526-16385	00000/0000	1-20074/0018	09/26/76	30	1279	27.8	142.0		GGGG			40	22
10501W	5141N	5525-16340	00000/0000	1-20074/0028	09/25/76	20	1265	29.9	139.5		GGGG			39	24
10502W	5430N	5490-16415	00000/0000	1-20072/0223	08/21/76	70	0777	39.2	133.4		FGGG			40	22
10502W	5142N	5489-16370	00000/0000	1-20072/0209	08/20/76	70	0763	40.8	129.9		GGGG			39	24
10503W	5138N	5543-16323	00000/0000	1-20074/0198	10/13/76	80	1516	23.9	143.5		GGGG			39	24
10504W	5423N	5544-16372	00000/0000	1-20074/0180	10/14/76	100	1530	21.7	145.6		GGFF			40	22
10506W	5146N	5471-16383	00000/0000	1-20072/0056	08/02/76	10	0512	45.2	125.8		GGGG			39	24
10515W	2602N	5519-16073	00000/0000	1-20073/0227	09/19/76	40	1181	42.9	114.8		GGGG			33	42
10518W	2013N	5518-16033	00000/0000	1-20073/0238	09/18/76	80	1167	44.9	108.5		GGGG			32	46
10537W	2435N	5519-16080	00000/0000	1-20073/0228	09/19/76	90	1181	43.8	113.4		GGGG			33	43
10539W	5550N	5545-16423	00000/0000	1-20074/0213	10/15/76	90	1544	20.4	146.7		FGGG			41	21
10540W	5556N	5491-16470	00000/0000	1-20073/0002	08/22/76	10	0791	38.2	135.2		GFGG			41	21
10540W	5551N	5527-16440	00000/0000	1-20074/0034	09/27/76	30	1293	26.6	143.4		GGGG			41	21
10540W	1847N	5518-16040	00000/0000	1-20073/0239	09/18/76	60	1167	44.8	107.0		GGGG			32	47
10541W	5017N	5525-16342	00000/0000	1-20074/0029	09/25/76	40	1265	30.7	138.4		GGGG			39	25
10542W	5553N	5509-16453	00000/0000	1-20073/0107	09/09/76	10	1042	32.9	139.4		GGGG			41	21
10542W	5018N	5489-16372	00000/0000	1-20072/0210	08/20/76	60	0763	41.8	128.4		GGGG			39	25
10543W	5555N	5473-16483	00000/0000	1-20072/0102	08/04/76	10	0540	43.6	131.6		FGGG			41	21

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
10543W	5013N	5543-16330	00000/0000	1-20074/0199	10/13/76	40	1516	24.8	142.6		FGGG			39	25
10544W	5304N	5526-16391	00000/0000	1-20074/0019	09/26/76	30	1279	28.7	140.9		GGGG			40	23
10546W	5307N	5508-16404	00000/0000	1-20073/0101	09/08/76	20	1028	34.5	136.4		GGGG			40	23
10546W	5306N	5490-16421	00000/0000	1-20072/0224	08/21/76	10	0777	39.9	131.8		GGGG			40	23
10546W	5022N	5471-16385	00000/0000	1-20072/0057	08/02/76	10	0512	45.7	124.0		GGGG			39	25
10547W	5300N	5544-16375	00000/0000	1-20074/0181	10/14/76	90	1530	22.7	144.6		GGGG			40	23
10549W	5014N	5792-16102	00000/0000	1-20079/0045	06/19/77	20	4988	47.1	112.3		GGG			39	25
10554W	5301N	5811-16132	00000/0000	1-20080/0044	07/08/77	50	5253	45.0	115.5		GGG			40	23
10600W	2308N	5519-16082	00000/0000	1-20073/0229	09/19/76	90	1181	43.6	111.9		GGGG			33	44
10619W	2729N	5502-16142	00000/0000	1-20073/0026	09/02/76	70	0944	45.2	108.0		GGGG			34	41
10619W	2729N	5520-16125	00000/0000	1-20073/0257	09/20/76	50	1195	42.8	116.8		GGGG			34	41
10622W	2141N	5519-16085	00000/0000	1-20073/0230	09/19/76	80	1181	43.8	110.5		GGGG			33	45
10627W	5432N	5491-16473	00000/0000	1-20073/0003	08/22/76	10	0791	38.8	133.6		FGGG			41	22
10627W	5426N	5545-16430	00000/0000	1-20074/0214	10/15/76	90	1544	21.4	145.8		GGGG			41	22
10627W	5138N	5526-16394	00000/0000	1-20074/0020	09/26/76	10	1279	29.5	139.8		GGGG			40	24
10628W	5429N	5509-16460	00000/0000	1-20073/0108	09/09/76	20	1042	33.5	138.0		GGFG			41	22
10628W	5427N	5527-16443	00000/0000	1-20074/0035	09/27/76	30	1293	27.5	142.3		FGFG			41	22
10628W	5142N	5508-16411	00000/0000	1-20073/0102	09/08/76	10	1028	35.3	135.1		GGGG			40	24
10628W	5141N	5490-16424	00000/0000	1-20072/0225	08/21/76	0	0777	40.5	130.2		GGGG			40	24
10629W	5135N	5544-16381	00000/0000	1-20074/0182	10/14/76	90	1530	23.6	143.7		GGGF			40	24
10630W	5431N	5473-16490	00000/0000	1-20072/0103	08/04/76	10	0540	43.7	129.8		PFFF			41	22
10634W	5139N	5793-16154	00000/0000	1-20079/0042	06/20/77	10	5002	46.8	114.1		GGG			40	24
10635W	5137N	5811-16135	00000/0000	1-20080/0045	07/08/77	40	5253	45.3	113.6		GGG			40	24
10642W	2603N	5502-16144	00000/0000	1-20073/0027	09/02/76	50	0944	45.4	106.5		GGFG			34	42
10642W	2603N	5520-16131	00000/0000	1-20073/0258	09/20/76	70	1195	42.7	115.3		GGGG			34	42
10644W	2014N	5519-16091	00000/0000	1-20073/0231	09/19/76	90	1181	44.2	109.0		GGFG			33	46
10704W	2437N	5502-16151	00000/0000	1-20073/0028	09/02/76	10	0944	45.6	104.9		FGGG			34	43
10705W	2437N	5520-16134	00000/0000	1-20073/0259	09/20/76	30	1195	43.1	113.9		GGGG			34	43
10707W	5017N	5508-16413	00000/0000	1-20073/0103	09/08/76	20	1028	36.8	133.8		GGGG			40	25
10708W	5013N	5526-16400	00000/0000	1-20074/0021	09/26/76	30	1279	30.4	138.6		GGGG			40	25
10709W	5016N	5490-16430	00000/0000	1-20072/0226	08/21/76	0	0777	41.2	128.6		GGGG			40	24
10712W	5308N	5491-16475	00000/0000	1-20073/0004	08/22/76	10	0791	39.6	132.1		FGFG			41	22
10712W	5302N	5545-16432	00000/0000	1-20074/0215	10/15/76	90	1544	22.3	144.8		GGGG			41	23
10713W	5304N	5509-16462	00000/0000	1-20073/0109	09/09/76	10	1042	34.2	136.7		GGGG			41	22
10713W	5303N	5527-16445	00000/0000	1-20074/0036	09/27/76	10	1293	28.4	141.1		GGGG			41	22

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ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
10714W	5014N	5793-16160	00000/0000	1-20079/0043	06/20/77	10	5002	47.0	112.2		GGG			40	25
10715W	5307N	5473-16492	00000/0000	1-20072/0104	08/04/76	40	0540	44.2	128.0		FFFG			41	23
10715W	5013N	5811-16141	00000/0000	1-20080/0046	07/08/77	50	5253	45.5	111.7		GGG			40	25
10726W	2309N	5502-16153	00000/0000	1-20073/0029	09/02/76	10	0944	45.7	103.3		FFFG			34	44
10727W	2308N	5520-16140	00000/0000	1-20073/0260	09/20/76	40	1195	43.5	112.5		GGGG			34	44
10743W	2729N	5521-16183	00000/0000	1-20073/0303	09/21/76	80	1209	42.2	117.2		GGGG			35	41
10747W	2731N	5503-16200	00000/0000	1-20073/0033	09/03/76	30	0958	45.1	108.5		GGGG			35	41
10748W	2142N	5502-16160	00000/0000	1-20073/0030	09/02/76	10	0944	45.8	101.7		PFFF			34	45
10749W	2140N	5520-16143	00000/0000	1-20073/0261	09/20/76	90	1195	43.8	111.0		GGGG			34	45
10754W	5143N	5491-16482	00000/0000	1-20073/0005	08/22/76	0	0791	40.3	130.5		GGGG			41	24
10754W	5137N	5545-16435	00000/0000	1-20074/0216	10/15/76	100	1544	23.9	143.9		GGGG			41	24
10755W	5140N	5509-16465	00000/0000	1-20073/0110	09/09/76	0	1042	35.8	135.3		GGGG			41	24
10755W	5139N	5527-16452	00000/0000	1-20074/0037	09/27/76	10	1293	29.2	140.0		GGGG			41	24
10756W	5143N	5473-16495	00000/0000	1-20072/0105	08/04/76	90	0540	44.8	126.2		FFFG			41	24
10801W	7317N	5542-16033	00000/0000	1-20074/0163	10/12/76	30	1503	8.7	166.4		GGGF			56	8
10806W	2602N	5521-16185	00000/0000	1-20073/0304	09/21/76	50	1209	42.6	115.8		GGGG			35	42
10809W	2604N	5503-16202	00000/0000	1-20073/0034	09/03/76	40	0958	45.3	107.0		GGGG			35	42
10810W	2013N	5520-16145	00000/0000	1-20073/0262	09/20/76	100	1195	44.0	109.5		GGGG			34	46
10811W	2015N	5502-16162	00000/0000	1-20073/0031	09/02/76	10	0944	45.8	100.1		FFF			34	46
10829W	2436N	5521-16192	00000/0000	1-20073/0305	09/21/76	90	1209	43.0	114.4		GGGG			35	43
10832W	2437N	5503-16205	00000/0000	1-20073/0035	09/03/76	50	0958	45.5	105.4		GGGG			35	43
10834W	5019N	5491-16484	00000/0000	1-20073/0006	08/22/76	0	0791	40.9	128.9		FGGG			41	25
10834W	5012N	5545-16441	00000/0000	1-20074/0217	10/15/76	90	1544	24.2	142.9		GGGG			41	25
10835W	5015N	5509-16471	00000/0000	1-20073/0111	09/09/76	0	1042	35.8	134.0		GGGG			41	25
10835W	5014N	5527-16454	00000/0000	1-20074/0038	09/27/76	0	1293	30.0	138.9		GGGG			41	25
10836W	5018N	5473-16501	00000/0000	1-20072/0106	08/04/76	90	0540	45.3	124.4		FFGG			41	25
10841W	5014N	5776-16233	00000/0000	1-20079/0025	06/03/77	30	4765	46.8	114.5		GGG			41	25
10841W	5013N	5812-16195	00000/0000	1-20080/0047	07/09/77	10	5267	45.8	111.8		GGG			41	25
10851W	2309N	5521-16194	00000/0000	1-20073/0306	09/21/76	90	1209	43.3	113.0		GGGF			35	44
10853W	2309N	5503-16211	00000/0000	1-20073/0036	09/03/76	20	0958	45.6	103.8		FGGG			35	44
10908W	2727N	5522-16241	00000/0000	1-20073/0293	09/22/76	90	1223	42.0	117.7		GFGG			36	41
10911W	2722N	5681-16101	00000/0000	1-20076/0020	02/28/77	0	3440	30.4	118.8		GGGG			36	41
10913W	2726N	5504-16254	00000/0000	1-20073/0055	09/04/76	60	0972	45.0	109.0		GGGG			36	41
10913W	2142N	5521-16201	00000/0000	1-20073/0307	09/21/76	70	1209	43.6	111.5		GGGG			35	45
10914W	2141N	5503-16214	00000/0000	1-20073/0037	09/03/76	30	0958	45.7	102.2		GGGG			35	45

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ORIGINAL PAGE IS
OF POOR QUALITY

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
10919W	5138N	5546-16493	00000/0000	1-20074/0242	10/16/76	10	1558	22.0	144.0		FGGG			42	24
10931W	2601N	5522-16243	00000/0000	1-20073/0294	09/22/76	90	1223	42.4	116.3		GGGG			36	42
10934W	2557N	5681-16103	00000/0000	1-20076/0021	02/28/77	0	3440	30.0	117.9		GGGG			36	42
10935W	2600N	5504-16260	00000/0000	1-20073/0056	09/04/76	70	0972	45.2	107.4		GGGG			36	42
10955W	2433N	5522-16250	00000/0000	1-20073/0295	09/22/76	60	1223	42.8	114.9		GGGG			36	43
10957W	2431N	5681-16110	00000/0000	1-20076/0023	02/28/77	10	3440	31.3	116.9		GG		H	36	43
10958W	2433N	5504-16263	00000/0000	1-20073/0057	09/04/76	60	0972	45.3	105.8		GGGG			36	43
10959W	5013N	5546-16495	00000/0000	1-20074/0243	10/16/76	20	1558	23.8	143.1		FFGG			42	25
11001W	5016N	5528-16512	00000/0000	1-20074/0052	09/28/76	0	1307	29.7	139.2		GGGG			42	25
11001W	5014N	5510-16525	00000/0000	1-20073/0137	09/10/76	0	1056	35.8	134.3		GGFG			42	25
11009W	5011N	5795-16272	00000/0000	1-20080/0001	06/22/77	10	5030	46.9	111.9		GGG			42	25
11011W	2854N	5523-16292	00000/0000	1-20073/0308	09/23/76	90	1237	41.5	119.5		GGGF			37	40
11013W	2849N	5682-16152	00000/0000	1-20076/0015	03/01/77	70	3454	30.2	119.4		GGGG			37	40
11015W	2850N	5505-16305	00000/0000	1-20073/0060	09/05/76	70	0986	44.6	111.0		FFGG			37	40
11018W	2306N	5522-16252	00000/0000	1-20073/0296	09/22/76	40	1223	43.2	113.4		GGGG			36	44
11018W	2306N	5681-16112	00000/0000	1-20076/0022	02/28/77	10	3440	31.8	116.0		GGGG		H	36	44
11020W	2306N	5504-16265	00000/0000	1-20073/0058	09/04/76	30	0972	45.5	104.2		GGGG			36	44
11034W	2728N	5523-16295	00000/0000	1-20073/0309	09/23/76	90	1237	41.8	118.1		GGGG			37	41
11036W	2723N	5682-16155	00000/0000	1-20076/0019	03/01/77	40	3454	30.7	118.5		GG			37	41
11038W	7203N	5542-18035	00000/0000	1-20074/0164	10/12/76	80	1503	9.7	163.8		GFGG			56	9
11038W	2723N	5505-16311	00000/0000	1-20073/0061	09/05/76	60	0986	44.8	109.5		GFFG			37	41
11040W	2139N	5522-16255	00000/0000	1-20073/0297	09/22/76	80	1223	43.5	112.0		GGGG			36	45
11042W	2139N	5504-16272	00000/0000	1-20073/0059	09/04/76	30	0972	45.6	102.7		GGGG			36	45
11053W	5139N	5778-16342	00000/0000	1-20079/0027	06/05/77	0	4793	46.8	116.2		GGG			43	24
11056W	5136N	5796-16323	00000/0000	1-20080/0004	06/23/77	10	5044	46.9	113.8		GGG			43	24
11058W	2600N	5523-16301	00000/0000	1-20073/0310	09/23/76	60	1237	42.2	116.8		GGGG			37	42
11059W	2557N	5682-16161	00000/0000	1-20076/0016	03/01/77	60	3454	31.2	117.5		GGGG		H	37	42
11101W	2558N	5505-16314	00000/0000	1-20073/0062	09/05/76	20	0986	45.0	107.9		FFGG			37	42
11121W	2433N	5523-16304	00000/0000	1-20073/0311	09/23/76	50	1237	42.6	115.4		GGGG			37	43
11121W	2431N	5682-16164	00000/0000	1-20076/0017	03/01/77	70	3454	31.6	116.6		GGGG		H	37	43
11124W	2433N	5505-16320	00000/0000	1-20073/0063	09/05/76	20	0986	45.2	106.3		FGGG			37	43
11126W	5018N	5511-16583	00000/0000	1-20073/0200	09/11/76	90	1070	35.1	134.6		GGGG			43	25
11129W	5304N	5512-17032	00000/0000	1-20073/0180	09/12/76	100	1084	33.8	137.4		GGGG			44	23
11129W	5014N	5529-16570	00000/0000	1-20074/0069	09/29/76	20	1321	29.4	139.4		GGF			43	25
11133W	5014N	5778-16345	00000/0000	1-20079/0028	06/05/77	0	4793	47.0	114.2		GGG			43	25

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ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
C0ORDINATE LISTING
F0R N0N-US
FR0M 07/23/76 T0 07/23/77

PRINCIPAL P0INT 0F IMAGE LONG	LAT	0BSERVATI0N ID	MICR0FILM P0SITI0N RBV	R0LL N0./ IN R0LL MSS	DATE ACQUIRED	CL0UD C0VER %	0RBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA M0DE	MSS IMAGE GAIN	0RBIT PATH NUM.	FRAME R0W NUM.
11135W	5011N	5796-16330	00000/0000	1-20080/0005	06/23/77	20	5044	46.9	111.9		GGG			43	25
11138W	2855N	5524-16350	00000/0000	1-20074/0011	09/24/76	50	1251	41.1	120.0		GGGG			38	40
11138W	2851N	5683-16210	00000/0000	1-20076/0024	03/02/77	10	3468	30.5	119.1		GGGG			38	40
11140W	2854N	5506-16363	00000/0000	1-20073/0084	09/06/76	70	1000	44.4	111.5		GGGG			38	40
11143W	2306N	5523-16310	00000/0000	1-20073/0312	09/23/76	60	1237	43.0	113.9		GGGG			37	44
11143W	2306N	5682-16170	00000/0000	1-20076/0018	03/01/77	30	3454	32.0	115.6		GGGG		H	37	44
11146W	2307N	5505-16323	00000/0000	1-20073/0064	09/05/76	30	0986	45.4	104.8		GFGG			37	44
11202W	2729N	5524-16352	00000/0000	1-20074/0012	09/24/76	10	1251	41.6	118.6		GGGG			38	41
11202W	2726N	5683-16212	00000/0000	1-20076/0028	03/02/77	10	3468	30.9	118.2		GG			38	41
11203W	2728N	5506-16365	00000/0000	1-20073/0085	09/06/76	50	1000	44.7	110.0		GGGG			38	41
11205W	2139N	5523-16313	00000/0000	1-20073/0313	09/23/76	20	1237	43.4	112.5		GGG			37	45
11208W	2140N	5505-16325	00000/0000	1-20073/0065	09/05/76	30	0986	45.5	103.2		FFGG			37	45
11213W	5139N	5512-17034	00000/0000	1-20073/0181	09/12/76	100	1084	34.1	136.1		GGGG			44	24
11213W	5139N	5530-17022	00000/0000	1-20074/0067	09/30/76	50	1335	28.2	140.7		GGG			44	24
11225W	2601N	5524-16355	00000/0000	1-20074/0013	09/24/76	10	1251	42.0	117.2		GGGG			38	42
11225W	2600N	5683-16215	00000/0000	1-20076/0025	03/02/77	10	3468	31.4	117.2		GGGG		H	38	42
11226W	2602N	5506-16372	00000/0000	1-20073/0086	09/06/76	20	1000	44.9	108.4		GGGG			38	42
11226W	2013N	5523-16315	00000/0000	1-20073/0314	09/23/76	20	1237	43.2	111.1		FGGG			37	46
11229W	2013N	5505-16332	00000/0000	1-20073/0066	09/05/76	20	0986	45.6	101.6		FFGG			37	46
11247W	2435N	5524-16361	00000/0000	1-20074/0014	09/24/76	40	1251	42.5	115.9		GGGF			38	43
11248W	2433N	5683-16221	00000/0000	1-20076/0026	03/02/77	20	3468	31.8	116.3		GGGG		H	38	43
11249W	2435N	5506-16374	00000/0000	1-20073/0087	09/06/76	30	1000	45.1	106.9		GGGG			38	43
11253W	5017N	5476-17071	00000/0000	1-20072/0138	08/07/76	20	0582	44.6	125.1		G GG			44	25
11253W	5014N	5512-17041	00000/0000	1-20073/0182	09/12/76	80	1084	34.8	134.8		GGGG			44	25
11254W	5015N	5530-17024	00000/0000	1-20074/0068	09/30/76	20	1335	29.1	139.7		GGGG			44	25
11256W	7046N	5542-18042	00000/0000	1-20074/0165	10/12/76	70	1503	10.2	161.6		GGGG			56	10
11300W	5014N	5779-16402	00000/0000	1-20079/0030	06/06/77	10	4807	47.1	114.0		GGG			44	25
11301W	5011N	5797-16383	00000/0000	1-20080/0013	06/24/77	50	5058	46.8	111.8		GGG			44	25
11306W	2852N	5525-16404	00000/0000	1-20074/0030	09/25/76	30	1265	40.8	120.4		GGGG			39	40
11309W	2307N	5524-16364	00000/0000	1-20074/0015	09/24/76	40	1251	42.8	114.5		GGGG			38	44
11310W	2307N	5683-16224	00000/0000	1-20076/0027	03/02/77	40	3468	32.2	115.3		GGGG		H	38	44
11311W	2307N	5506-16381	00000/0000	1-20073/0088	09/06/76	30	1000	45.3	105.3		GFGG			38	44
11328W	2727N	5525-16410	00000/0000	1-20074/0031	09/25/76	50	1265	41.4	119.1		GFGG			39	41
11338W	5140N	5513-17092	00000/0000	1-20073/0186	09/13/76	30	1098	33.7	136.4		GGG			45	24
11350W	2602N	5525-16413	00000/0000	1-20074/0032	09/25/76	60	1265	41.9	117.7		GGGG			39	42

KEYS: CL0UD C0VER % ..... 0 T0 100 = % CL0UD C0VER,
IMAGE QUALITY ..... BLANKS=BAND N0T AVAILABLE, G=G00D, P=P00R, F=FAIR.
MSS DATA M0DE..... (BLANK)=C0MPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=L0W GAIN, H=HIGH GAIN

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
11406W	3016N	5667-16333	00000/0000	1-20075/0014	02/14/77	10	3245	26.0	124.9		GGGG			40	39
11407W	3016N	5526-16455	00000/0000	1-20074/0022	09/26/76	30	1279	40.2	122.1		GGGF			40	39
11409W	3015N	5544-16443	00000/0000	1-20074/0183	10/14/76	10	1530	36.0	129.1		GFGG			40	39
11413W	3017N	5793-16215	00000/0000	1-20079/0044	06/20/77	0	5002	46.1	86.7		GGF			40	39
11418W	5018N	5477-17125	00000/0000	1-20072/0141	08/08/76	90	0596	44.4	125.3		GGGG			45	25
11419W	5015N	5513-17095	00000/0000	1-20073/0187	09/13/76	20	1098	34.5	135.1		GGG			45	25
11420W	5014N	5531-17082	00000/0000	1-20074/0098	10/01/76	10	1349	28.7	139.9		GGGG			45	25
11422W	5020N	5744-16492	00000/0000	1-20078/0023	05/02/77	50	4319	42.0	121.5		GGF			45	25
11422W	5017N	5726-16510	00000/0000	1-20077/0003	04/14/77	50	4068	36.8	125.3		GGG			45	25
11427W	5012N	5798-16441	00000/0000	1-20080/0011	06/25/77	40	5072	46.7	111.8		GGG			45	25
11431W	2849N	5526-16462	00000/0000	1-20074/0023	09/26/76	30	1279	40.8	120.8		FGGG			40	40
11432W	2854N	5508-16475	00000/0000	1-20073/0104	09/08/76	90	1028	44.1	112.5		GGGG			40	40
11455W	2727N	5508-16481	00000/0000	1-20073/0105	09/08/76	90	1028	44.4	111.0		GGGG			40	41
11455W	2723N	5526-16464	00000/0000	1-20074/0024	09/26/76	40	1279	41.2	119.5		GGGG			40	41
11457W	6929N	5542-18044	00000/0000	1-20074/0166	10/12/76	50	1503	11.7	159.6		GGGG			56	11
11508W	5145N	5727-16562	00000/0000	1-20077/0001	04/15/77	60	4082	36.6	126.6		GGG			46	24
11532W	3017N	5527-16513	00000/0000	1-20074/0039	09/27/76	30	1293	40.0	122.6		GGGG			41	39
11533W	3016N	5545-16500	00000/0000	1-20074/0218	10/15/76	50	1544	35.8	129.5		GGGG			41	39
11536W	3021N	5491-16543	00000/0000	1-20073/0007	08/22/76	10	0791	46.4	106.2		FGGG			41	39
11536W	3021N	5758-16310	00000/0000	1-20078/0034	05/16/77	10	4514	46.8	93.6		GGG			41	39
11537W	3020N	5509-16530	00000/0000	1-20073/0112	09/09/76	90	1042	43.6	114.4		GGGG			41	39
11538W	3021N	5473-16560	00000/0000	1-20072/0107	08/04/76	10	0540	48.8	98.7		GGGG			41	39
11538W	3018N	5812-16254	00000/0000	1-20080/0048	07/09/77	40	5267	44.5	87.5		GGG			41	39
11539W	3019N	5794-16273	00000/0000	1-20080/0009	06/21/77	50	5016	46.0	86.7		GGG			41	39
11539W	3016N	5776-16292	00000/0000	1-20079/0026	06/03/77	50	4765	46.8	88.8		GGG			41	39
11544W	5020N	5478-17183	00000/0000	1-20072/0144	08/09/76	90	0610	44.2	125.6		GGGG			46	25
11544W	5016N	5514-17153	00000/0000	1-20073/0216	09/14/76	0	1112	34.2	135.4		GGGG			46	25
11545W	5012N	5532-17140	00000/0000	1-20074/0086	10/02/76	90	1363	28.4	140.1		GGGG			46	25
11547W	5021N	5727-16564	00000/0000	1-20077/0002	04/15/77	80	4082	37.1	125.1		GGG			46	25
11550W	5307N	5764-16581	00000/0000	1-20079/0010	05/22/77	80	4598	45.1	120.8		GGG			47	23
11556W	8017N	5820-20212	00000/0000	1-20080/0069	07/17/77	90	5381	30.8	189.0		GGG			70	248
11556W	2851N	5527-16520	00000/0000	1-20074/0040	09/27/76	80	1293	40.5	121.3		GGGG			41	40
11601W	2854N	5509-16533	00000/0000	1-20073/0113	09/09/76	100	1042	43.8	112.9		GGGG			41	40
11632W	5142N	5764-16584	00000/0000	1-20079/0011	05/22/77	60	4598	45.5	118.9		GGG			47	24
11633W	5144N	5728-17015	00000/0000	1-20077/0004	04/16/77	90	4096	36.9	126.4		FFG			47	24

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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C0ORDINATE LISTING
F0R N0N-US
FR0M 07/23/76 T0 07/23/77

PRINCIPAL P0INT 0F IMAGE LONG	LAT	0BSERVATI0N ID	MICR0FILM P0SITI0N RBV	R0LL N0./ IN R0LL MSS	DATE ACQUIRED	CL0UD C0VER %	0RBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA M0DE	MSS IMAGE GAIN	0RBIT PATH NUM.	FRAME R0W NUM.
11700W	3016N	5528-16571	00000/0000	1-20074/0053	09/28/76	70	1307	39.7	123.0		GGGG			42	39
11701W	3019N	5510-16584	00000/0000	1-20073/0138	09/10/76	80	1056	43.4	114.9		GGGG			42	39
11709W	5021N	5497-17224	00000/0000	1-20073/0010	08/28/76	90	0875	39.2	130.7		GGGG			47	25
11710W	5013N	5533-17194	00000/0000	1-20074/0103	10/03/76	60	1377	28.1	140.4		GGGG			47	25
11712W	5017N	5764-16590	00000/0000	1-20079/0012	05/22/77	20	4598	45.8	117.0		GGG			47	25
11713W	5020N	5728-17022	00000/0000	1-20077/0005	04/16/77	90	4096	37.5	124.9		GFG			47	25
11715W	5302N	5534-17243	00000/0000	1-20074/0099	10/04/76	10	1391	26.0	142.7		GGGG			48	23
11715W	5018N	5461-17254	00000/0000	1-20072/0013	07/23/76	70	0373	47.8	122.2		GGGG			47	25
11718W	8017N	5803-20285	00000/0000	1-20080/0037	06/30/77	40	5144	32.8	190.0		GG			71	248
11756W	5140N	5516-1/262	00000/0000	1-20073/0221	09/16/76	10	1140	32.8	137.2		GGGG			48	24
11757W	5138N	5534-17245	00000/0000	1-20074/0100	10/04/76	10	1391	26.9	141.7		GGGG			48	24
11802W	5139N	5783-17023	00000/0000	1-20079/0037	06/10/77	10	4863	46.9	115.3		GGG			48	24
11823W	6651N	5542-18053	00000/0000	1-20074/0167	10/12/76	10	1503	13.7	156.1		FGGG			56	13
11829W	5017N	5657-17142	00000/0000	1-20075/0015	02/04/77	30	3146	13.5	137.3		GFGG			48	25
11835W	5016N	5516-17265	00000/0000	1-20073/0222	09/16/76	10	1140	33.6	136.0		GGGG			48	25
11836W	5014N	5534-17252	00000/0000	1-20074/0101	10/04/76	20	1391	27.8	140.6		GGGG			48	25
11840W	5019N	5462-1/311	00000/0000	1-20072/0015	07/24/76	40	0387	47.6	122.4		GGGG			48	25
11842W	5015N	5783-17030	00000/0000	1-20079/0038	06/10/77	10	4863	47.2	113.4		GGG			48	25
11928W	3147N	5476-17123	00000/0000	1-20072/0139	08/07/76	80	0582	48.4	101.7		GGGG			44	38
11929W	5138N	5820-1/043	00000/0000	1-20080/0066	07/17/77	70	5379	43.9	114.2		GG			49	24
11931W	5138N	5802-1/062	00000/0000	1-20080/0016	06/29/77	70	5128	46.2	113.6		GGG			49	24
11950W	6529N	5542-18060	00000/0000	1-20074/0168	10/12/76	40	1503	14.7	154.6		FGGG			56	14
12006W	5020N	5730-17134	00000/0000	1-20077/0006	04/18/77	80	4124	38.3	124.5		GGG			49	25
12006W	5017N	5463-17365	00000/0000	1-20072/0014	07/25/76	0	0401	47.6	122.5		GGG			49	25
12009W	5013N	5784-17084	00000/0000	1-20079/0039	06/11/77	10	4877	47.2	113.2		GGG			49	25
12009W	5012N	5820-1/045	00000/0000	1-20080/0067	07/17/77	40	5379	44.2	112.4		GG			49	25
12010W	5013N	5802-17064	00000/0000	1-20080/0017	06/29/77	50	5128	46.6	111.6		GGG			49	25
12048W	3145N	5654-17025	00000/0000	1-20075/0001	02/01/77	80	3064	22.8	129.1		GGGG			45	38
12054W	3144N	5513-17151	00000/0000	1-20073/0188	09/13/76	90	1098	42.4	117.8		GGGG			45	38
12056W	3149N	5477-17181	00000/0000	1-20072/0142	08/08/76	90	0596	48.9	102.1		GGGG			45	38
12109W	6408N	5542-18062	00000/0000	1-20074/0169	10/12/76	40	1503	15.6	153.2		FGGG			56	15
12113W	3019N	5654-17032	00000/0000	1-20075/0002	02/01/77	70	3064	23.4	128.4		GGGG			45	39
12124W	8018N	5806-20455	00000/0000	1-20080/0024	07/03/77	70	5186	32.5	190.1		G			71	248
12127W	5021N	5500-17393	00000/0000	1-20073/0013	08/31/76	0	0917	38.9	131.5		GGGG			50	25
12137W	2854N	5654-17034	00000/0000	1-20075/0003	02/01/77	90	3064	24.2	127.7		GGGG			45	40

KEYS: CL0UD C0VER % ..... 0 T0 100 = % CL0UD C0VER,
IMAGE QUALITY ..... BLANKS=BAND N0T AVAILABLE, G=G00D, P=P00R, F=FAIR.
MSS DATA M0DE..... (BLANK)=C0MPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=L0W GAIN, H=HIGH GAIN

PRINCIPAL POINT OF IMAGE LONG	LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
12217W	3145N	5655-17083	00000/0000	1-20075/0004	02/02/77	80	3078	22.8	128.9		GGGG			46	38
12221W	3149N	5496-17222	00000/0000	1-20073/0009	08/27/76	40	0861	45.5	110.1		GGGG			46	38
12221W	3144N	5514-17205	00000/0000	1-20073/0217	09/14/76	20	1112	42.2	118.2		GGGG			46	38
12222W	6247N	5542-18065	00000/0000	1-20074/0170	10/12/76	30	1503	16.6	151.9		GGGG			56	16
12223W	3151N	5478-17235	00000/0000	1-20072/0145	08/09/76	90	0610	48.1	102.5		GGGG			46	38
12255W	5018N	5501-17451	00000/0000	1-20073/0014	09/01/76	10	0931	38.1	131.7		GGGG			51	25
12311W	7935N	5820-20215	00000/0000	1-20080/0070	07/17/77	80	5381	31.6	181.1		GGG			87	2
12318W	3312N	5656-17134	00000/0000	1-20075/0005	02/03/77	60	3092	22.4	129.3		GGGG			47	37
12321W	3316N	5497-17274	00000/0000	1-20073/0011	08/28/76	90	0875	45.0	112.2		GGGG			47	37
12321W	3310N	5533-17244	00000/0000	1-20074/0104	10/03/76	60	1377	37.3	127.4		GGFG			47	37
12322W	3314N	5515-17261	00000/0000	1-20073/0220	09/15/76	40	1126	41.5	120.1		GGGG			47	37
12327W	3311N	5764-17040	00000/0000	1-20079/0013	05/22/77	90	4598	47.0	95.1		GGG			47	37
12328W	6125N	5542-18071	00000/0000	1-20074/0171	10/12/76	20	1503	17.6	150.7		FFGG			56	17
12421W	5012N	5538-17480	00000/0000	1-20074/0114	10/08/76	80	1447	26.4	141.5		GGG			52	25
12422W	5016N	5520-17492	00000/0000	1-20073/0240	09/20/76	0	1196	32.3	137.1		GGGG			52	25
12429W	6002N	5542-18074	00000/0000	1-20074/0172	10/12/76	10	1503	18.6	149.5		FGGG			56	18
12438W	7934N	5803-20292	00000/0000	1-20080/0032	06/30/77	30	5144	33.6	182.2		GGF			88	2
12527W	5839N	5542-18080	00000/0000	1-20074/0173	10/12/76	40	1503	19.5	148.4		GGGG			56	19
12546W	5016N	5521-17550	00000/0000	1-20073/0263	09/21/76	80	1210	32.0	137.4		GGGG			53	25
12620W	5716N	5542-18083	00000/0000	1-20074/0174	10/12/76	90	1503	20.5	147.3		GFGF			56	20
12620W	4146N	5501-17474	00000/0000	1-20073/0015	09/01/76	90	0931	41.9	123.0		GGGG			51	31
12624W	4150N	5750-17254	00000/0000	1-20078/0011	05/08/77	20	4403	45.2	109.8		GGG			51	31
12643W	4435N	5520-17510	00000/0000	1-20073/0241	09/20/76	80	1196	35.3	132.3		GGG			52	29
12643W	4432N	5538-17494	00000/0000	1-20074/0115	10/08/76	90	1447	29.8	137.6		FGGG			52	29
12647W	4440N	5751-17303	00000/0000	1-20078/0026	05/09/77	70	4417	44.8	113.0		GGG			52	29
12700W	4726N	5521-17555	00000/0000	1-20073/0264	09/21/76	90	1210	33.5	135.0		GGGG			53	27
12715W	4307N	5538-17500	00000/0000	1-20074/0116	10/08/76	70	1447	30.7	136.6		FGGG			52	30
12719W	4314N	5751-17310	00000/0000	1-20078/0027	05/09/77	70	4417	45.2	111.2		GGG			52	30
12843W	5304N	5542-18094	00000/0000	1-20074/0175	10/12/76	100	1503	23.3	144.3		GGGG			56	23
12846W	7935N	5806-20461	00000/0000	1-20080/0025	07/03/77	30	5186	33.4	182.2		GGG			91	2
12924W	5140N	5542-18101	00000/0000	1-20074/0176	10/12/76	100	1503	24.2	143.3		GGGG			56	24
12930W	7844N	5820-20221	00000/0000	1-20080/0071	07/17/77	90	5381	32.4	174.2		GGG			87	3
13003W	5015N	5542-18103	00000/0000	1-20074/0177	10/12/76	90	1503	25.2	142.4		GGGF			56	25
13048W	7434N	5755-19271	00000/0000	1-20078/0029	05/13/77	80	4474	33.1	159.8		GGG			75	7
13101W	7842N	5803-20294	00000/0000	1-20080/0033	06/30/77	0	5144	34.4	175.3		GGG			88	3

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

ORIGINAL PAGE IS
OF POOR QUALITY

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 07/23/76 TO 07/23/77

PRINCIPAL POINT OF IMAGE LONG	PRINCIPAL POINT OF IMAGE LAT	OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV 123	IMAGE-QUAL MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUM.	FRAME ROW NUM.
13349W	7322N	5755-19274	00000/0000	1-20078/0030	05/13/77	90	4474	33.5	156.2		GGG			75	8
13413W	6805N	5821-18482	00000/0000	1-20080/0068	07/18/77	60	5394	38.5	138.9		GGG			69	12
13457W	7746N	5820-20224	00000/0000	1-20080/0072	07/17/77	10	5381	33.1	168.2		GGG			86	4
13508W	7844N	5806-20464	00000/0000	1-20080/0026	07/03/77	50	5186	34.2	175.2		GGG			91	3
13625W	7207N	5755-19280	00000/0000	1-20078/0031	05/13/77	70	4474	34.7	152.9		GGG			75	9
13628W	7744N	5803-20301	00000/0000	1-20080/0038	06/30/77	0	5144	35.2	169.2		GG			87	4
13651W	7318N	5793-19353	00000/0000	1-20080/0006	06/20/77	30	5004	38.6	152.5		GGG			77	8
13750W	7210N	5756-19334	00000/0000	1-20079/0001	05/14/77	70	4488	34.8	152.9		GGG			76	9
13842W	7052N	5755-19283	00000/0000	1-20078/0032	05/13/77	90	4474	35.5	150.0		GGG			75	10
13927W	7203N	5793-19355	00000/0000	1-20080/0007	06/20/77	90	5004	39.8	149.1		GGG			77	9
13936W	7643N	5820-20230	00000/0000	1-20080/0073	07/17/77	10	5381	33.9	163.0		GGG			86	5
14008W	7054N	5756-19341	00000/0000	1-20079/0002	05/14/77	80	4488	35.7	150.0		GGG			76	10
14035W	7747N	5806-20470	00000/0000	1-20080/0027	07/03/77	50	5186	35.0	169.1		GGF			90	4
14044W	7212N	5758-19450	00000/0000	1-20078/0033	05/16/77	30	4516	35.4	152.8		GGG			78	9
14105W	7641N	5803-20303	00000/0000	1-20080/0039	06/30/77	0	5144	36.0	163.9		GF			87	5
14332W	7537N	5820-20233	00000/0000	1-20080/0074	07/17/77	10	5381	34.6	158.3		GGG			86	6
14501W	7535N	5803-20310	00000/0000	1-20080/0034	06/30/77	10	5144	36.8	159.3		GGG			87	6
14513W	7645N	5806-20473	00000/0000	1-20080/0028	07/03/77	60	5186	35.7	163.8		GGG			90	5
14620W	7210N	5744-20091	00000/0000	1-20078/0024	05/02/77	30	4321	31.8	153.6		GGG			82	9
14655W	7427N	5820-20235	00000/0000	1-20080/0075	07/17/77	10	5381	35.4	154.3		GGG			86	7
14748W	7210N	5745-20145	00000/0000	1-20078/0025	05/03/77	90	4335	32.1	153.6		GGG			83	9
14824W	7425N	5803-20312	00000/0000	1-20080/0035	06/30/77	20	5144	37.5	155.1		GGG			87	7
14912W	7538N	5806-20475	00000/0000	1-20080/0029	07/03/77	50	5186	36.5	159.2		GGG			90	6
14934W	7200N	5800-20152	00000/0000	1-20080/0014	06/27/77	10	5102	39.1	148.4		GGG			84	9
14938W	7200N	5818-20133	00000/0000	1-20080/0053	07/15/77	0	5353	37.1	147.3		GGG			84	9
14952W	7314N	5820-20242	00000/0000	1-20080/0076	07/17/77	10	5381	36.1	150.6		GGG			86	8
15121W	7313N	5803-20315	00000/0000	1-20080/0036	06/30/77	10	5144	38.2	151.4		GGG			87	8
15236W	7428N	5806-20482	00000/0000	1-20080/0030	07/03/77	20	5186	37.2	155.0		GGG			90	7
15531W	7316N	5806-20484	00000/0000	1-20080/0031	07/03/77	10	5186	38.0	151.3		GGG			90	8
16737W	7042N	5811-21174	00000/0000	1-20080/0042	07/08/77	10	5256	38.8	144.5		GG			95	10
16938W	6925N	5811-21181	00000/0000	1-20080/0040	07/08/77	40	5256	39.4	141.7		GGG			95	11
17125W	6808N	5811-21183	00000/0000	1-20080/0041	07/08/77	30	5256	40.1	139.0		GFG			95	12

KEYS: CLOUD COVER % ..... 0 TO 100 = % CLOUD COVER,
IMAGE QUALITY ..... BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR,
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

!FIN

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OF POOR QUALITY

APPENDIX

APPENDIX

EXPLANATION OF OBSERVATION ID

The day after the 999th day of operation of LANDSAT 1, the first digit of the observation ID becomes a 5, signifying that the 1000th day of operation has been reached. The next three digits, which correspond to the count of days since launch, return to 000. On each day thereafter the count, as before, increases by one. The ID format for LANDSAT 1 is illustrated below:

1000 - hhmms
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1998 - hhmms
1999 - hhmms April 18, 1975
5000 - hhmms April 19, 1975
5001 - hhmms (Days since launch equal 1001)
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The same general identification procedure will be used for LANDSAT 2 imagery. The day after the 999th day of operation of LANDSAT 2, the first digit of the observation ID becomes a 6, and the next three digits return to 000 as explained above. An illustration follows:

2000 - hhmms
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2999 - hhmms
6000 - hhmms
6001 - hhmms (Days since launch equal 1001)
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Key: hh = hours
mm = minutes
s = tens of seconds

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